CITY VIEW TOWERS ELECTRICAL UPGRADE

CITY VIEW TOWERS, 350 MOODY STREET LOWELL, MASSACHUSETTS 01854

OWNER

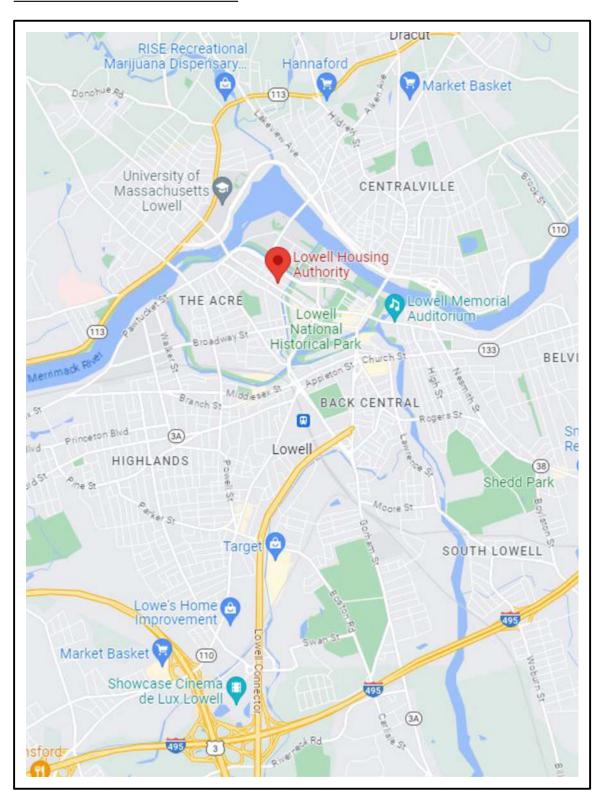
LOWELL HOUSING AUTHORITY 350 MOODY STREET LOWELL, MA 01854 P: 978-364-5311

LHA BOARD OF COMMISSIONERS:

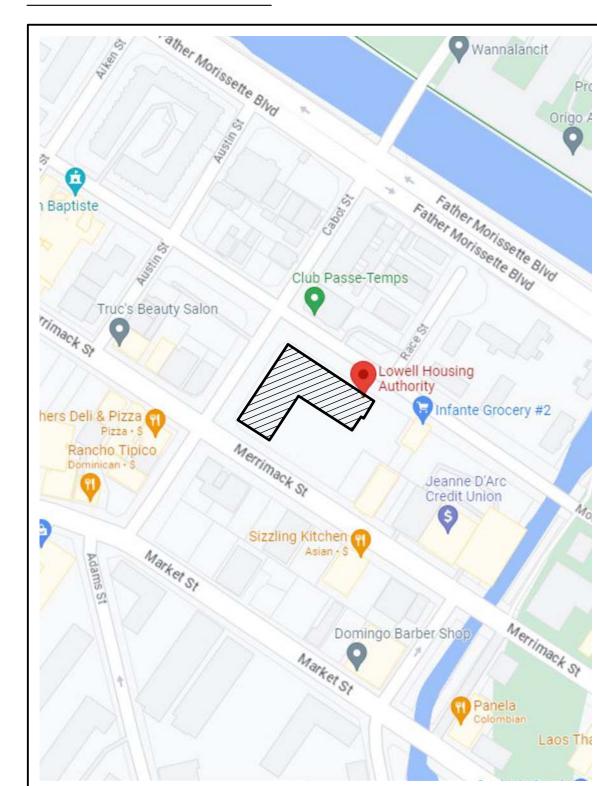
PHILIP L. SHEA - CHAIRMAN MONY VAR - VICE CHAIRPERSON MATT MARR - COMMISSIONER JOANIE BERNES - COMMISSIONER RODNEY ELLOITT - COMMISSIONER THA CHHAN - EXECUTIVE DIRECTOR



VICINITY MAP



LOCALITY MAP



INDEX OF DRAWINGS

TITLE SHEET ABBREVIATIONS, LEGENDS AND NOTES BASEMENT PLAN - DEMOLITION BASEMENT PLAN - NEW WORK

ELECTRICAL LEGEND ELECTRICAL ABBREVIATIONS AND GENERAL NOTES POWER, SYSTEMS AND FIRE ALARM PLAN ONE LINE DIAGRAM - EXISTING CONDITONS ONE LINE DIAGRAM - NEW WORK RISER DIAGRAMS

SCHEDULES SCHEDULES E9.01 DETAILS DEMOLITION PLAN ED.01 PART PLAN - DEMOLITION

R.O.

SIM.

STL.

VCT

ROUGH OPENING

SQ. FT. SQUARE FEET SQ. IN. SQUARE INCHES SCW SOLID CORE WOOD S.S. STAINLESS STEEL

SIMILAR SPECS SPECIFICATIONS

STEEL

WIDE WITH WOOD

TELE. TELEPHONE THICK THICKNESS THRESH THRESHOLD T.O. TOP OF TYP. TYPICAL

T&G TONGUE AND GROOVE

U.O.N. UNLESS OTHERWISE NOTED

VERIFY IN FIELD

WELDED WIRE FABRIC

UNITED STATES POSTAL SERVICE

VINYL COMPOSITION TILE

SHT. SHEET SHTS. SHEETS

ARCHITECTURAL LEGEND SHEET LOCATION MARK SECTION MARK EXTERIOR ELEVATION MARK INTERIOR ELEVATION MARK A/X.XX /\ WINDOW TAG

ABANDON IN PLACE EXISTING ITEM TO REMAIN (N) NEW CONSTRUCTION (R) REMOVE

S SEALANT

DOOR TAG

PMJ PREMOLDED JOINT FILLER

WALL TAG. REFER TO SHEET AX.XX

CONSTRUCTION NOTE TAG

(RR) REMOVE AND REINSTALL (RT) REMOVE AND TURN OVER TO OWNER

LINE TYPES EXISTING CONSTRUCTION TO REMAIN

----- EXISTING CONSTRUCTION TO BE REMOVED

GENERAL NOTES

- 1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FACILTY TO MAINTAIN CUSTOMER ACCESS AT ALL TIMES.
- 2. ALL WORK BEING PERFORMED SHALL NOT IN ANY WAY INTERFERE WITH THE REGULAR OPERATION OF THE FACILITY. SECURITY SHALL BE MAINTAINED AT ALL TIMES.
- 3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FACILITY FOR ACCESS TO AND FROM THE FACILITY.
- 4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE BEGINNING ANY WORK OR PURCHASING ANY MATERIAL OR EQUIPMENT.
- 5. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING
- CONDITIONS BEFORE SUBMITTING THEIR OFFER. NO EXTRA WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THE ABOVE.
- 6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER OF ANY EXISTING CONDITION DISCOVERED DURING DEMOLITION THAT WILL INTERFERE WITH THE NEW WORK.

CITY

R # -SYMBOL DENOTES WORK TO BE DONE. NUMBER CORRESPONDS TO A SPECIFIC NOTE BELOW.

R 1 EXISTING ELECTRICAL ROOM -(R) CONCRETE LANDING AND TREAD. -(R) DOOR AND FRAME -(R) PORTION OF CMU PARTITION FOR NEW DOOR AND FRAME.

1. ABBREVIATIONS, LEGENDS AND NOTES REFER TO A1.01.

R 2 <u>EXISTING OFFICES</u> -(R) ALL PARTITIONS INDICATED BY DASHED LINE UP TO DECK ABOVE. -(R) ALL DOORS AS INDICATED BY DASHED LINE. -(R) ALL SUSPENDED CEILINGS. (E) SPRINKLER HEADS TO REMAIN -(R) ALL COUNTERS, CABINETS, BUILT IN DESKS, ETC.

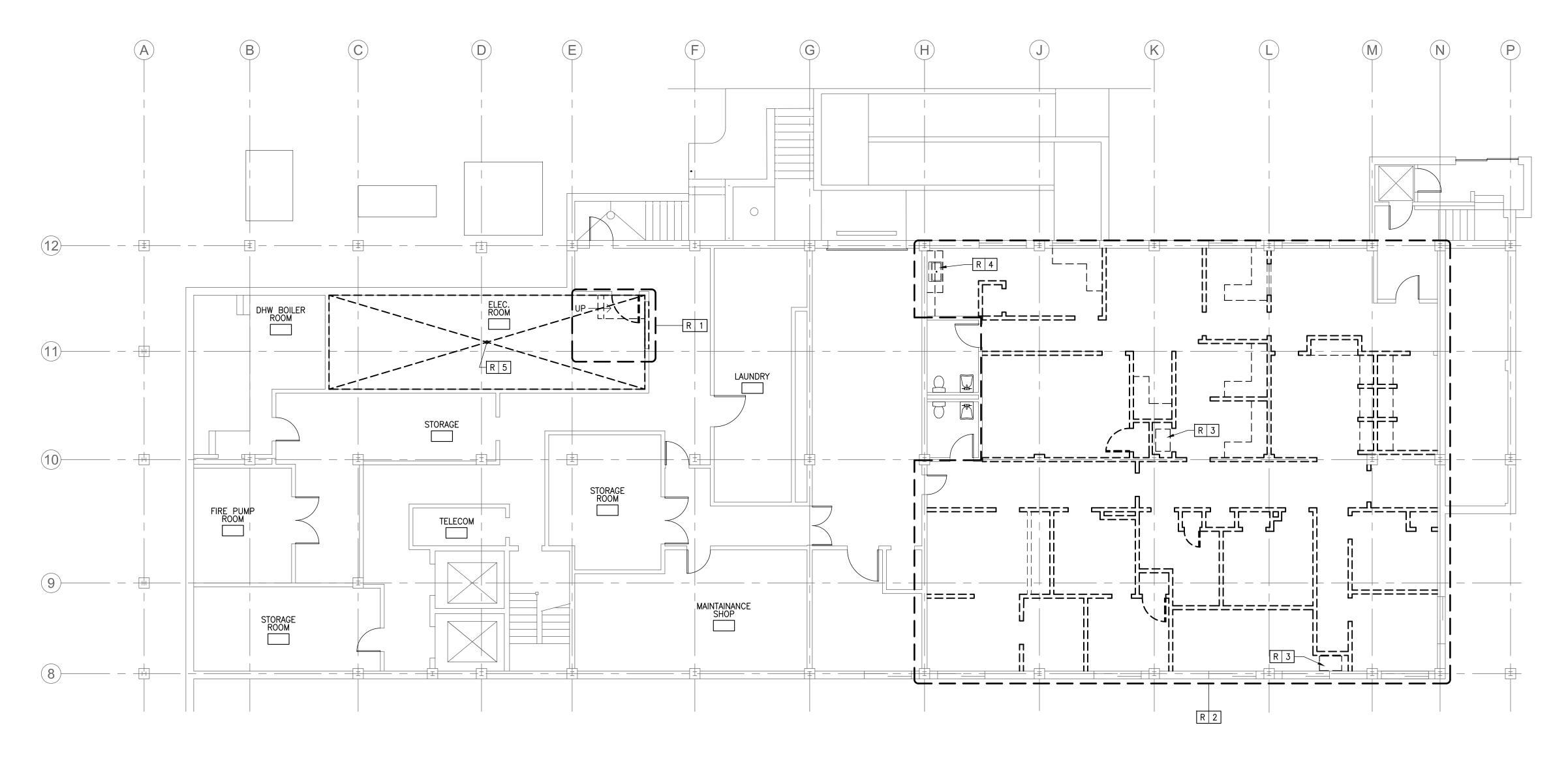
-(R) ALL VCT FLOORING EXCEPT WITHIN RESTROOMS SHOWN TO REMAIN.

R 3 EXISTING HVAC UNITS -(R) SPLIT SYSTEM AIR CONDITIONING SYSTEM INCLUDING ALL DUCTWORK, REFRIGERANT PIPING, OUTDOOR CONDENSER, THERMOSTAT CONTROLS, AND CONDENSATE PUMP AND PIPING.

R 4 EXISTING KITCHEN SINK

-(R) SINK AND FAUCET. CUT AND CAP EXISTING PIPING STUBBED OUT OF WALL.

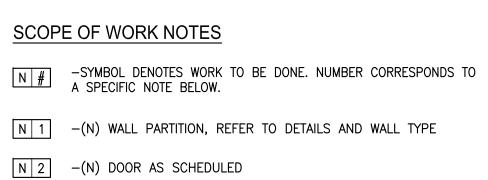
R 5 SUSPENDED GWB CEILING -(R) SUSPENDED GYPSUM WALL BOARD AND FRAMING SYSTEM INCLUDING HANGERS. EXISTING PLASTER COATING CONTAINS ASBESTOS AND SHALL BE ABATED IN ACCORDANCE WITH SPECIFICATIONS.



BASEMENT PLAN - DEMOLITION







N 3 -(N) FIRE TREATED PLYWOOD BACKBOARD FROM FLOOR UP TO 8'-0" AFF

(N) CMU INFILL OF EXISTING OPENING. INFILL TO MATCH

ADJACENT WALL, PAINT.

N 2

4'-0"

(N) 6" THICK CONCRETE LANDING

AND STAIR

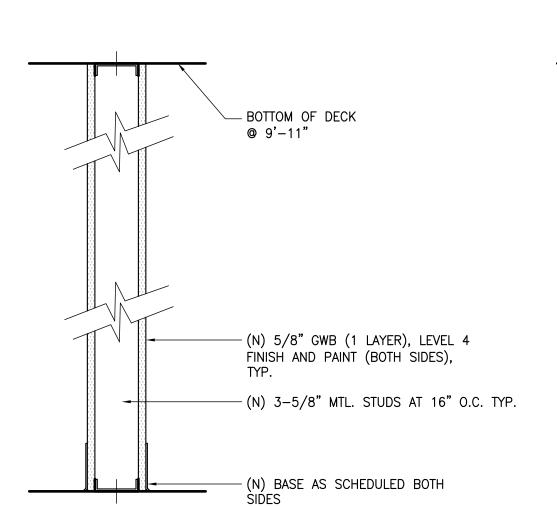
2 TREADS @ 10"

3 RISERS AT 7"---

STAIR UP

ELECTRIC ROOM

TELECOM



-BOTTOM OF DECK @ 9'-11" - SEALANT BOTH SIDES - DEFLECTION SPACE AS REQUIRED NOTE: WALL SYSTEM SHALL BE 2-HOUR RATED UL DESIGN #U412 2 LAYERS 5/8" TYPE "X" GYP. BD. BOTH SIDES, LEVEL 4 FINISH AND PAINT BOTH SIDES. - 3-5/8" MTL. STUDS @ 16" O.C. BASE AS SCHEDULED BOTH SIDES - SEALANT BOTH SIDES

1. ABBREVIATIONS, LEGENDS AND NOTES REFER TO A1.01.

1. CONVENTIONAL STEEL MEMBERS SHALL BE A MINIMUM OF 20 GAUGE (0.0296 INCH, 0.752 MM). EMBOSSED STEEL MEMBERS SHALL BE A MINIMUM OF 20 GAUGE (0.0190 INCH TO 0.0209 INCH, 0.483 MM TO 0.531 MM). THE THICKNESS OF STEEL MEMBERS SHALL BE INCREASED AS REQUIRED IN COMPLIANCE WITH ASTM C754-15 LIMITING HEIGHT TABLES.

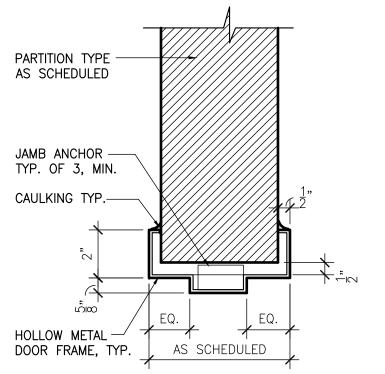
ELECTRICAL ROOM

TELEPHONE CLOSET

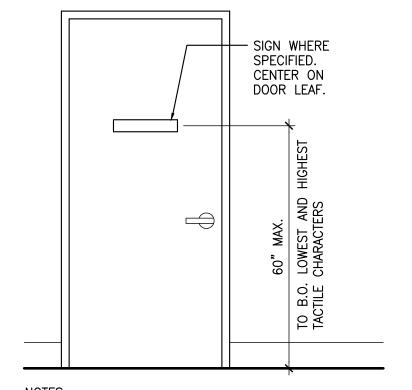
TEL/DATA

TYPE FACE SHALL BE HELVETICA MEDIUM UPPER AND LOWER CASE.
 PROVIDE 1/32" RAISED LETTERING W/BRAILLE.

EMERGENCY ELEC.







MOUNT SIGN PANELS WITH SCREWS AND EXPANSION SLEEVES AS REQUIRED.
 SIGNAGE SHALL BE MOUNTED ON THE LATCH SIDE OF DOOR.

DOOR SIGNAGE DETAIL

		1	NEW	MEN WOR //4" = 1'-	K	TIAL PLA	AN -							
									DO	OOR S	SCHEDU	JLE		
DOOR	LADEL		SIZE			DOOR			FRAME		D	ETAIL REFEREN	CE	HARDWARE
DOOR MARK	– LABEL	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESH.	SET
		(-) -1 -11		/ . **										

11)—

FIRE PUMP ROOM

STORAGE ROOM

	DOOR SCHEDULE														
DOOR MARK – LABEL		SIZE			DOOR		FRAME		DETAIL REFERENCE			HARDWARE	SIGNAGE NOTE	REMARKS	
MARK - LABEL	C - LABEL WIDTH HEIGHT THICK TYPE MATERIAL FINISH TYPE MATERIAL FINISH HEAD JAMB THRI											THRESH.	SET	SIGNAGE NOTE	REMARKS
1 – B	Α	НМ	PAINT	2	НМ	PAINT	3/A1.01	3/A1.01		1	ELECTRICAL ROOM	90 MINUTE RATED			
2 - (2) 3'-0" 6'-10" 1-3/4" A HM							2	НМ	PAINT	3/A1.01	3/A1.01		2	TELEPHONE CLOSET	
3 –	(2) 3'-0"	6'-10"	1-3/4"	Α	НМ	PAINT	2	НМ	PAINT	3/A1.01	3/A1.01		2	TEL/DATA	
4 – B	3'-0"	6'-10"	1-3/4"	Α	НМ	PAINT	1	НМ	PAINT	3/A1.01	3/A1.01		3	EMERGENCY ELEC.	90 MINUTE RATED
NOT TO SCALE	– PAINT					2"	FRAME ELEVATIONS NOT TO SCALE 2" PAINT PAINT						B. SEE SPE	TERIAL, SIZES, FRAMES AND CIFICATIONS FOR MORE INFOR	RMATION.
DOOR TYPE A TYPICAL							AME TYPE 1 PICAL		FRAME T TYPICAL	YPE 2					

ELECTRICAL LEGEND

FIRE ALARM	1
FM	- AUDIBLE/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
V◀	"NUMERAL" INDICATES CANDELA RATING VISUAL — ONLY NOTIFICATION APPLIANCE, WALL MOUNTED
	"NUMERAL" INDICATES CANDELA RATING AUDIBLE—ONLY APPLIANCE, WALL MOUNTED
	AUDIBLE/VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
·\$\#	"NUMERAL" INDICATES CANDELA RATING VISUAL-ONLY NOTIFICATION APPLIANCE, CEILING MOUNTED
- ∵ -#	"NUMERAL" INDICATES CANDELA RATING
-A -	AUDIBLE—ONLY NOTIFICATION APPLIANCE, CEILING MOUNTED
RAI	REMOTE ALARM INDICATOR
F ©	MANUAL PULL STATION
\$	SMOKE DETECTOR
Ĥ	HEAT DETECTOR, FIXED TEMPERATURE
FS TS	WATERFLOW SWITCH TAMPER SWITCH
PS]	PRESSURE SWITCH
FACP	FIRE ALARM CONTROL PANEL
[FATC]	FIRE ALARM CONTROL PANEL FIRE ALARM TERMINAL CABINET
FAPB	FIRE ALARM POWER BOOSTER
FAA	FIRE ALARM ANNUNCIATOR PANEL
F	MASTER BOX
R	RADIO MASTER BOX
SYNC	STROBE SYNCHRONIZATION MODULE
СМ	CONTROL MODULE
©M ©O SITE WORK	CONTROL MODULE CARBON MONOXIDE DETECTOR UNDERGROUND
<u>©</u>	CARBON MONOXIDE DETECTOR
SITE WORK	CARBON MONOXIDE DETECTOR UNDERGROUND ABOVE GROUND
SITE WORK	CARBON MONOXIDE DETECTOR UNDERGROUND ABOVE GROUND TRANSFORMER — PAD MOUNTED
SITE WORK T GEN	CARBON MONOXIDE DETECTOR UNDERGROUND ABOVE GROUND TRANSFORMER — PAD MOUNTED GENERATOR HANDHOLE
SITE WORK T GEN HH MISCELLANI	CARBON MONOXIDE DETECTOR UNDERGROUND ABOVE GROUND TRANSFORMER — PAD MOUNTED GENERATOR HANDHOLE EOUS SECTION IDENTIFIER, INDICATING
SITE WORK GEN HH MISCELLANI 3 E1.01	UNDERGROUND ABOVE GROUND TRANSFORMER - PAD MOUNTED GENERATOR HANDHOLE SECTION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01
SITE WORK T GEN HH MISCELLANI 3 E1.01	UNDERGROUND ABOVE GROUND TRANSFORMER — PAD MOUNTED GENERATOR HANDHOLE EOUS SECTION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 DETAIL IDENTIFIER, INDICATING DETAIL 3 ON DRAWING E1.01 KEY NOTE TAG
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SITE WORK GEN HH MISCELLANI 3 E1.01 4 XXX #	UNDERGROUND ABOVE GROUND TRANSFORMER — PAD MOUNTED GENERATOR HANDHOLE EOUS SECTION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 ELEVATION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 DETAIL IDENTIFIER, INDICATING DETAIL 3 ON DRAWING E1.01 KEY NOTE TAG MECHANICAL EQUIPMENT TAG: "XXX" DENOTES EQUIPMENT TYPE "#" DENOTES EQUIPMENT NUMBER REFER TO MECHANICAL EQUIPMENT SCHEDULE
SITE WORK GEN HH MISCELLANI 3 E1.01 3 E1.01 # XXXX # RECEPTACL	UNDERGROUND ABOVE GROUND TRANSFORMER — PAD MOUNTED GENERATOR HANDHOLE EOUS SECTION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 ELEVATION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 DETAIL IDENTIFIER, INDICATING DETAIL 3 ON DRAWING E1.01 KEY NOTE TAG MECHANICAL EQUIPMENT TAG: "XXX" DENOTES EQUIPMENT TYPE "#" DENOTES EQUIPMENT NUMBER REFER TO MECHANICAL EQUIPMENT SCHEDULE
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SITE WORK T GEN HH MISCELLANI 3 E1.01 3 E1.01 # RECEPTACL P #	UNDERGROUND ABOVE GROUND TRANSFORMER — PAD MOUNTED GENERATOR HANDHOLE EOUS SECTION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 ELEVATION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 DETAIL IDENTIFIER, INDICATING DETAIL 3 ON DRAWING E1.01 KEY NOTE TAG MECHANICAL EQUIPMENT TAG: "XXX" DENOTES EQUIPMENT TYPE "#" DENOTES EQUIPMENT TYPE "#" DENOTES EQUIPMENT NUMBER REFER TO MECHANICAL EQUIPMENT SCHEDULE ES DUPLEX CONVENIENCE RECEPTACLE 20A, 125V DOUBLE DUPLEX CONVENIENCE RECEPTACLE
SITE WORK SITE WORK GEN HH MISCELLANI 3 E1.01 3 E1.01 W RECEPTACL P P P	UNDERGROUND ABOVE GROUND TRANSFORMER — PAD MOUNTED GENERATOR HANDHOLE EOUS SECTION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 DETAIL IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01 DETAIL JOENTIFIER, INDICATING DETAIL 3 ON DRAWING E1.01 KEY NOTE TAG MECHANICAL EQUIPMENT TAG: "XXX" DENOTES EQUIPMENT NUMBER REFER TO MECHANICAL EQUIPMENT SCHEDULE ES DUPLEX CONVENIENCE RECEPTACLE 20A, 125V DOUBLE DUPLEX CONVENIENCE RECEPTACLE GFCI DUPLEX CONVENIENCE RECEPTACLE

	RIBUTION	WOTORIZEL	AND HVAC EQUIPMENT CONTROLS
	PANELBOARD - 480Y/277V. SURFACE MOUNTED	☐H xxAS	DISCONNECT SWITCH, UNFUSED, "xxAS" INDICATES SWITCH SIZE
	PANELBOARD - 480Y/277V. FLUSH MOUNTED PANELBOARD - 208Y/120V. SURFACE MOUNTED	xxAS yyAF	DISCONNECT SWITCH, FUSED, "xxAS" INDICATES SWITCH SIZE, "yyAF" INDICATES FUSE SIZE
	PANELBOARD - 208Y/120V. FLUSH MOUNTED	CB xxAF yyAT	ENCLOSED CIRCUIT BREAKER, "xxAF" INDICATES FRAME SIZE, "yyAT" INDICATES TRIP RATING
SPD	SURGE PROTECTIVE DEVICE	\$м	THERMAL MOTOR SWITCH WITH HANDLE GUARD AND LOCK-OUT CAPABILITY
T	DRY TYPE TRANSFORMER	⊠ ⊦	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH
CT	CURRENT TRANSFORMER CABINET	#	MOTOR CONNECTION — NUMERAL INDICATES HORSEPOWER
M	METER SOCKET	©P CP	EQUIPMENT CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	OLID O O DIDT	•
BSGB	BUILDING SERVICE GROUND BUS BAR	SUBSCRIPT	<u>S</u>
	BUS DUCT, PLUG IN OR FEEDER TYPE, 480Y/277V	+XX	MOUNTING HEIGHT TO CENTERLINE OF DEVICE
		C CR	COUNTER HEIGHT CONTROLLED RECEPTACLE
		E	EMERGENCY
CEWAYS		EX	EXPLOSION PROOF
		GF	WIRED TO GROUND FAULT FOR PROTECTION OF FOURTH
	HOMERUN - DESTINATION & CIRCUIT INDICATED	GFPE	WIRED TO GROUND FAULT FOR PROTECTION OF EQIUPMENT CIRCUIT BREAKER
	CONDUIT CONCEALED IN FINISHED AREAS, EXPOSED IN	Н	HORIZONTALLY - MOUNTED
	UNFINISHED AREAS CONDUIT CONCEALED UNDER FLOOR SLAB	IG	ISOLATED GROUND
	CONDUIT, UP	K LV	KEY – OPERATED LOW VOLTAGE
	CONDUIT, DOWN	MC	MOMENTARY CONTACT
7	CONDUIT STUB. TERMINATE WITH BUSHING OR CAP IF	NL	UNSWITCHED NIGHT LIGHT
	UNDERGROUND	S	SURFACE - MOUNTED
	FLEXIBLE CONNECTION TO EQUIPMENT	SP	SURGE PROTECTED RECEPTACLE
J J	JUNCTION BOX	TL TR	TWIST-LOCK RECEPTACLE TAMPER-RESISTANT RECEPTACLE
PB	PULL BOX	WP	WEATHER RESISTANT DEVICE MOUNTED IN WEATHERPROOF BOX WITH IN-USE COVER.
(ISTING EQ	UIPMENT NOTATION LEGEND		
XM	EXISTING EQUIPMENT TO REMAIN.	SWITCHING	AND LIGHTING CONTROLS
XR	EXISTING EQUIPMENT TO BE REMOVED.	S	SINGLE POLE SWITCH
XRL	EXISTING EQUIPMENT TO BE RELOCATED.	Sa	SWITCH CONTROL (LOWER-CASE LETTER)
XRN	NEW LOCATION OF RELOCATED EXISTING EQUIPMENT.	S ₂	TWO POLE SWITCH
XRR	EXISTING EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW DEVICE. EXISTING BACKBOX AND ASSOCIATED WIRING TO	S _a	THREE WAY SWITCH - "a" DENOTES SWITCH CONTROL
VD	BE REUSED.	S4	FOUR WAY SWITCH
ХВ	EXISTING EQUIPMENT AND ASSOCIATED WIRING TO BE REMOVED. PROVIDE NEW BLANK PLATE ON EXISTING BOX.	St	TIMER SWITCH
XS	EXISTING EQUIPMENT TO BE REMOVED, STORED, CLEANED, AND REINSTALLED IN EXISTING LOCATION.	OS1	OCCUPANCY SENSOR, WALL SWITCH TYPE, SINGLE POLE
XA	EXISTING EQUIPMENT TO BE DISCONNECTED AND ABANDONED	OS2	OCCUPANCY SENSOR, WALL SWITCH TYPE, TWO POLE
	IN PLACE	0S3	OCCUPANCY SENSOR, CEILING MOUNTED, DUAL TECH
TERIOR LIG	SHTING	OS4	OCCUPANCY SENSOR, CEILING MOUNTED, ULTRASONIC ONLY
	LUMINAIRE: DRAWN TO APPROXIMATE SHAPE AND TO SCALE OR LARGE ENOUGH FOR CLARITY		
	STANDARD DESIGNATIONS FOR ALL LUMINAIRES	TELECOMM	<u>UNICATIONS</u>
A	"A" = LUMINAIRE TYPE, REFER TO SPECIFICATION OR SCHEDULE "NL" = UNSWITCHED NIGHT LIGHT	v #	TELECOMMUNICATIONS OUTLET (T.O.)
#,a 2,a	"2" = CIRCUIT NUMBER "a" = SWITCH CONTROL	▼	NUMERAL DENOTES NUMBER OF JACKS IF GREATER THAN ONE TELEPHONE OUTLET
\bigcirc	WALL MOUNTED LUMINAIRE, BRACKET OR SCONCE		EQUIPMENT RACK
——	STRIP LUMINAIRE		PLYWOOD BACKBOARD
	SHADING DENOTES LUMINAIRE PROVIDING EMERGENCY ILLUMINATION	TGB	TEL/COM GROUND BUS BAR
$\overrightarrow{\underline{\mathbf{Q}}}$ $\overrightarrow{\underline{\mathbf{Q}}}$	ILLUMINATED EXIT SIGN, SHADING DENOTES NUMBER AND ORIENTATION OF FACES. ARROWS DENOTE DIRECTIONAL CHEVRONS	-	IAGRAM SYMBOLS

GROUNDING CONNECTION - SYSTEM OR EQUIPMENT

TRANSFER SWITCH
"ATS" DENOTES AUTOMATIC TRANSFER SWITCH
"MTS" DENOTES MANUAL TRANSFER SWITCH

PANELBOARD

TRANSFORMER

ATS ANNUNCIATOR

EMERGENCY BATTERY UNIT WITH LUMINAIRE HEADS

REMOTE EMERGENCY LUMINAIRE HEADS

TIME CLOCK

#P#W

AFCI

ATS

A/V AWG

BLDG BPS

CAT

CATV

CCTV

CKT

CP

DISC

DN

EC

ELEC

ENT

EOL

EP0

FDR

G/GND

GEN

GFCI

GFPE

GRSC

ΗZ

IDC

IDS

IMC

kcmil

K/0

EM/EMER

CABLE TELEVISION

CARBON MONOXIDE

CURRENT TRANSFORMER

WIRED ON EMERGENCY CIRCUIT

ELECTRICAL NON-METALLIC TUBING

GROUND-FAULT CIRCUIT INTERRUPTER

GALVANIZED RIGID STEEL CONDUIT

INITIATING DEVICE CIRCUIT

ISOLATED GROUND

JUNCTION BOX

KNOCK-OUT

KILOVOLTS

INTRUSION DETECTION SYSTEM

INTERMEDIATE METAL CONDUIT

THOUSAND CIRCULAR MILS

GROUND-FAULT PROTECTION FOR EQUIPMENT

ELECTRICAL CONTRACTOR

ELECTRICAL METAL TUBING

EMERGENCY POWER OFF

FULL LOAD AMPERES

FLEXIBLE METAL CONDUIT

GENERAL CONTRACTOR

CONTROL PANEL

DIRECT CURRENT

DISCONNECT

DRAWING(S)

ELECTRIC(AL)

END OF LINE

FUSE

FEEDER(S)

GROUND

GENERATOR

HORSEPOWER HIGH VOLTAGE

HERTZ

INFRARED

EMERGENCY

CIRCUIT CB/CKT BKR CIRCUIT BREAKER

COPPER

DELTA

DOWN

CENTERLINE

CLOSED CIRCUIT TELEVISION

ECTRICAL ADDREVIATIONS		
NUMBER OF POLES NUMBER OF POLES, NUMBER OF WIRES	kVA kVAR kW	KILOVOLT—AMPERE KILOVOLT—AMPERE REACTIVE KILOWATTS
NUMERAL INDICATES MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE, IN INCHES. AMPERES ALTERNATING CURRENT ARCHITECT/ENGINEER AMP FRAME / AMP FUSE ARC-FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY ALUMINUM AMERICAN NATIONAL STANDARDS INSTITUTE	LTG LFMC LSIG LV MAX MC MCB MCC MCP MFR MIN MLO	LIGHTING LIQUIDTIGHT FLEXIBLE METAL CONDUIT LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT LOW VOLTAGE MAXIMUM METAL CLAD CABLE MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR MANUFACTURER MINIMUM MAIN LUG ONLY
AMP SWITCH AMP TRIP AUTOMATIC TRANSFER SWITCH AUXILIARY	MTD MTG MTS MV	MOUNTED MOUNTING MANUAL TRANSFER SWITCH MEDIUM VOLTAGE
AUDIO / VISUAL AMERICAN WIRE GAGE	NAC NC	NOTIFICATION APPLIANCE CIRCUIT NORMALLY CLOSED
BASIC IMPULSE LEVEL BUILDING BOLTED PRESSURE SWITCH	NEC NEMA NFPA NIC	NATIONAL ELECTRIC CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOC NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT
CONDUIT CATALOG CARLE, TELEVISION	NM NMC NO	NON-METALLIC SHEATHED CABLE NON-METALLIC CONDUIT NORMALLY OPEN

NTS

0.C.

0/H

PIV

RSC

STP

STL

SW SWBD

SWGR

T/D

TMCB

TO TYP

UC

UG

UL

UPS

UTP

WH

WP

ΧP

XFMR

PH / ø

PNL/PNLBD

NOT TO SCALE

NUMBER

ON CENTER

PLUMBING CONTRACTOR/

POST INDICATING VALVE

POTENTIAL TRANSFORMER

REFLECTED CEILING PLAN

RIGID METAL CONDUIT

RIGID STEEL CONDUIT

SHIELDED TWISTED PAIR

POLYVINYL CHLORIDE CONDUIT

PERSONAL COMPUTER

PASSIVE INFRARED

PANEL/PANELBOARD

POINT OF SALE

PHOTOVOLTAIC

SECONDARY SOLID NEUTRAL

SHUNT TRIP

SWITCHGEAR

TELEPHONE

UNDERGROUND

VOLT/VOLTAGE

WEATHERPROOF

TRANSFORMER

EXPLOSION PROOF

WATT WATT HOUR

WYE

TYPICAL

TELEPHONE/DATA

THERMAL MAGNETIC CIRCUIT BREAKER

UNDER-COUNTER OR UNDER-CABINET

TELECOMMUNICATION OUTLET

UNDERWRITERS LABORATORIES

UNSHIELDED TWISTED PAIR

VOLTAGE TRANSFORMER

UNINTERRUPTIBLE POWER SOURCE

STEEL

SWITCH SWITCHBOARD

STAINLESS STEEL

OVERHEAD

PHASE

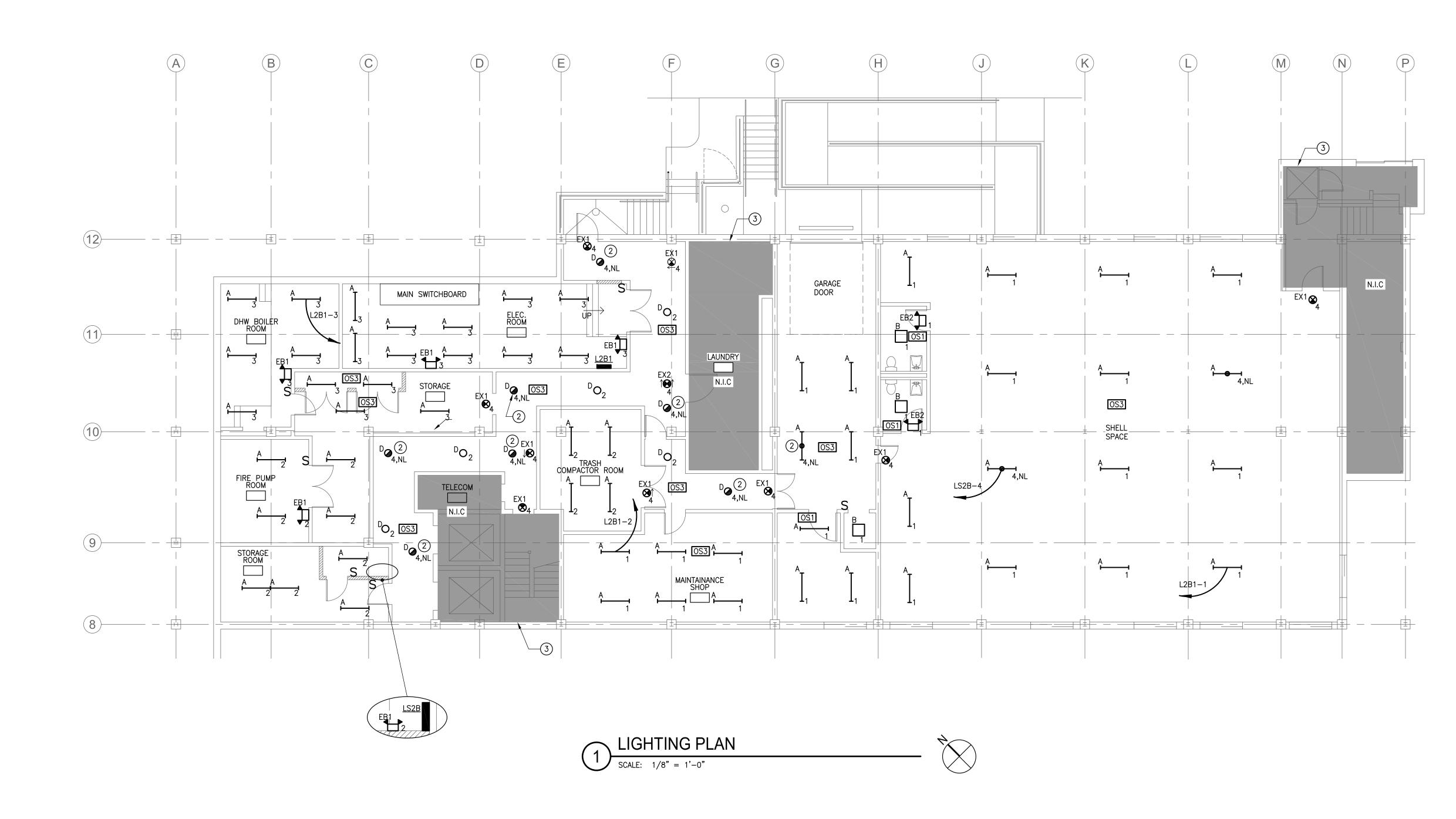
PRIMARY

ELECTRICAL GENERAL NOTES

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- 3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FACILITY FOR ACCESS TO AND FROM THE FACILITY.
- 4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE BEGINNING ANY WORK OR PURCHASING ANY MATERIAL OR EQUIPMENT.
- 5. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS BEFORE SUBMITTING THEIR OFFER. NO EXTRA WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THE ABOVE.
- 6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER OF ANY EXISTING CONDITION DISCOVERED DURING DEMOLITION THAT WILL INTERFERE WITH THE NEW WORK.

CITY

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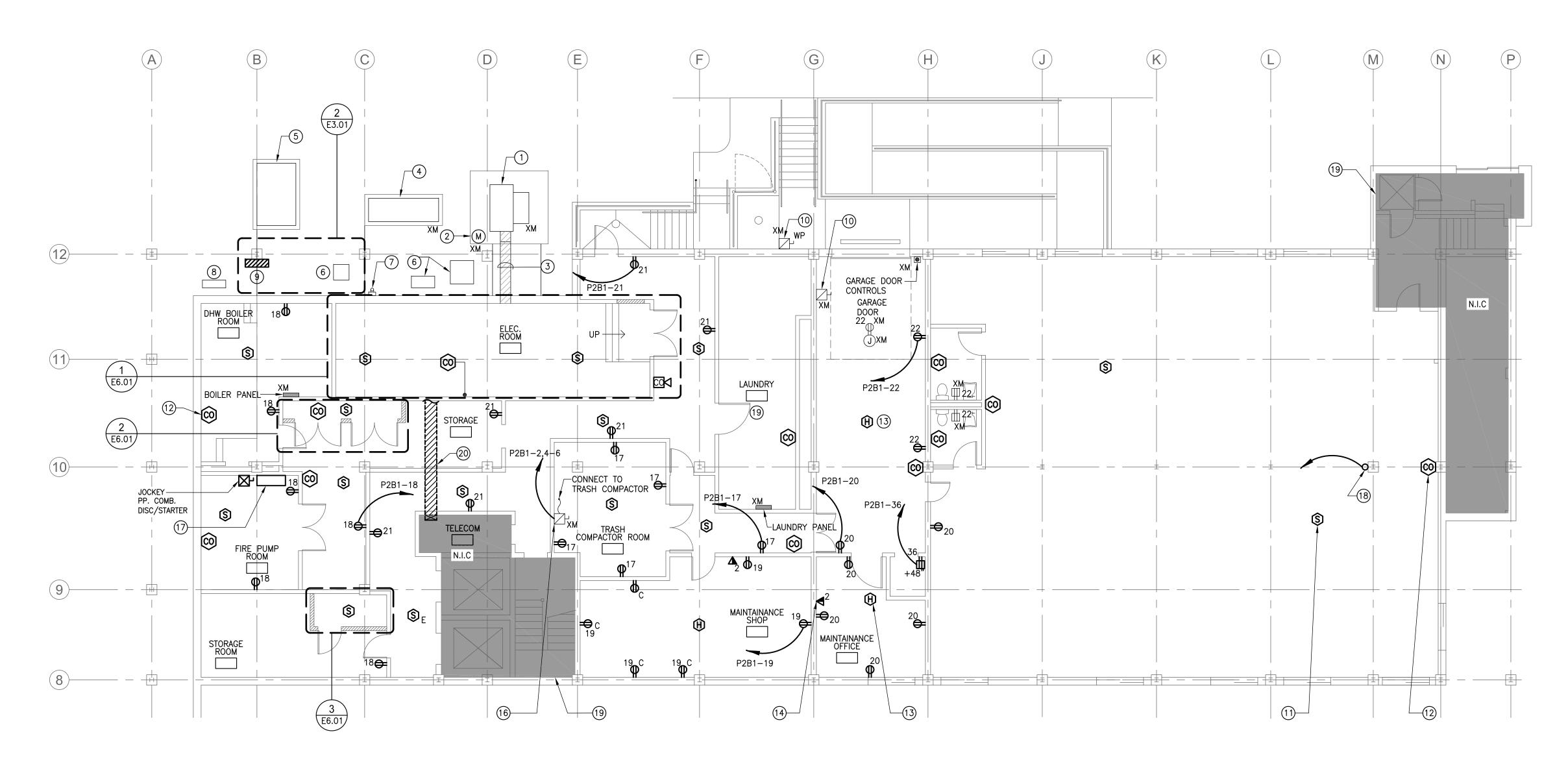


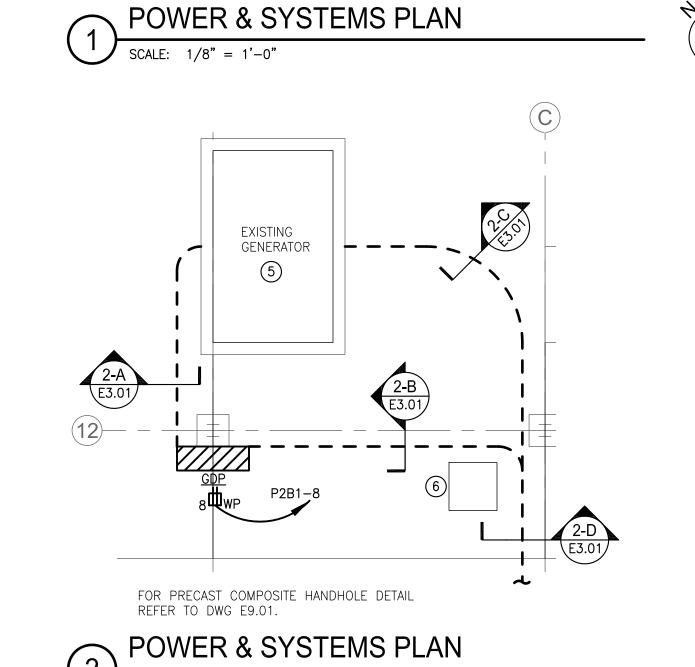
- 1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES REFER TO DRAWING
- FOR LIGHTING FIXTURES SCHEDULE AND PANELBOARD SCHEDULE, REFER TO DRAWING E8.01.
- ALL BATTERY, SELF-CONTAINED EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED AHEAD OF SWITCHING.

- 1) REFER TO DRAWING E3.01 FOR PANELBOARD LOCATIONS.
- (2) CIRCUIT TO LIFE SAFETY PANELBOARD AS NOTED.
- 3 INTERCEPT EXISTING LIGHTING CIRCUITS (NORMAL & EMERGENCY) SERVING AREA AND RECONNECT TO NEW BRANCH LIGHTING CIRCUITS SERVING BASEMENT.

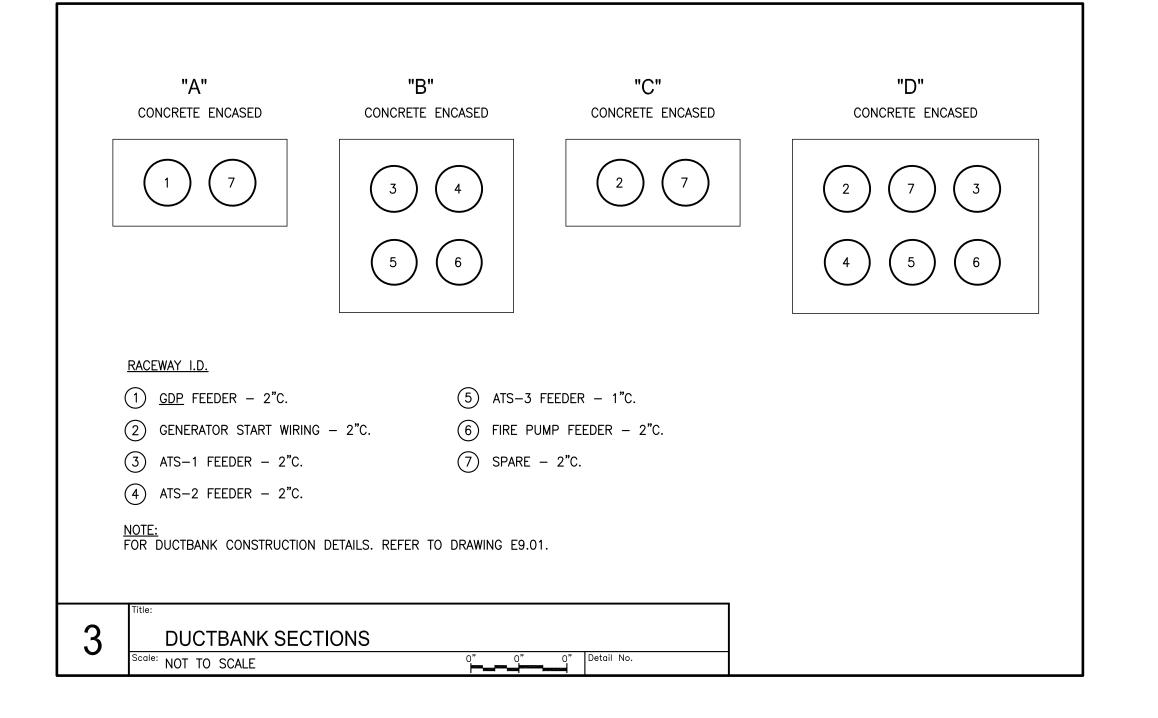
VIEW

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SCALE: 1/4" = 1'-0"



- 1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES REFER TO DRAWING
- 2. MAINTAIN ALL EXISTING FIRE ALARM DEVICES NOT INCLUDED IN DEMOLITION. INTERCEPT AND CONNECT NEW DEVICES TO EXISTING LOOP SERVING AREA. REFER TO PARTIAL FIRE ALARM RISER DIAGRAM ON DRAWING E7.03 FOR ADDITIONAL INFORMATION.
- 3. RECIRCUIT ALL 480V TEMP. HEATING UNITS TO PANELBOARD P4B1 AND ALL 208V TO PANELBOARD M2B1.

- (1) EXISTING UTILITY CO. PAD MOUNTED TRANSFORMER TO REMAIN.
- 2 EXISTING UTILITY CO. METER TO REMAIN.
- (3) EXISTING SECONDARY SERVICE BUSDUCT TO REMAIN.
- (4) EXISTING UTILITY CO. PRIMARY SWITCHGEAR TO REMAIN.
- 5 EXISTING DIESEL FIRED GENERATOR TO REMAIN.
- (6) EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- 7 EXISTING PORTABLE GENERATOR INLET TO REMAIN. SERVES CELL PHONE TOWER EQUIPMENT.
- 8 EXISTING GAS METER TO REMAIN.
- 9) NEW PANELBOARD <u>GDP</u> WITH NEMA 4 WEATHERPROOF ENCLOSURE MOUNTED AT EXTERIOR COLUMN B/12. PROVIDE DEDICATED WATERPROOF GFCI RECEPTACLE MOUNTED ADJACENT TO PANELBOARD.
- 10 EXISTING DISCONNECT SAFETY SWITCH FOR MATERIAL LIFT TO REMAIN. MAINTAIN EXISTING CIRCUITING.
- 11) PROVIDE NEW CONVENTIONAL SMOKE DETECTORS COMPATIBLE WITH MIRCOM FACP. INTERCEPT EXISTING LOOP SERVING AREA. (TYPICAL)
- 12) PROVIDE NEW CARBON MONOXIDE DETECTOR. MACURCO #CM-6 TYPE OR APPROVED EQUAL. (TYPICAL) REFER TO CO ALARM DETAIL 3 ON DRAWING E9.01 FOR ADDITIONAL INFORMATION.
- 13) PROVIDE NEW CONVENTIONAL HEAT DETECTORS COMPATIBLE WITH MIRCOM FACP. INTERCEPT EXISTING LOOP SERVING AREA. (TYPICAL)
- (14) PROVIDE NEW TELECOMMUNICATIONS OUTLETS WIRED BACK TO TEL/COM CLOSET AND TERMINATED IN NEW RACK FOR A COMPLETE WORKING SYSTEM. (TYPICAL)
- PROVIDE NEW CARBON MONOXIDE HORN/STROBE AND PLAQUE. MACURCO HS-A OR APPROVED EQUAL. REFER TO CO ALARM DETAIL ON DRAWING E9.01 FOR ADDITIONAL INFORMATION.
- (16) EXISTING DISCONNECT SAFETY SWITCH FOR TRASH COMPACTOR TO REMAIN.
- RENTAL FIRE PUMP CONTROLLER TO BE REMOVED AND REPLACED WITH NEW. SCHEDULE REMOVAL WITH RENTAL COMPANY AS NOTED. ROSEMONT ENGINEERING INCORPORATED, LOWELL, MA 01851 (978)
- TWO (2) 2 1/2" C. UP TO EXISTING LHA OFFICE TEL/DATA CLOSET AT 1ST FLOOR. COORDINATE EXACT LOCATION IN FIELD. HOMERUN TO NEW TEL/DATA CLOSET. REFER TO TEL/DATA RISER ON DWG. E7.03.
- 19 INTERCEPT EXISTING BRANCH RECEPTACLE CIRCUITS IN SHADED AREA N.I.C. AND RE-FEED WITH NEW BRANCH CIRCUIT FROM PANELBOARD <u>P2B1</u>. REFER TO DRAWING E8.01 FOR ADDITIONAL INFORMATION. RECIRCUIT HANDICAP CHAIR LIFT TO PANELBOARD <u>P2B1</u>.
- APPROXIMATE ROUTING OF EXISTING 1200A BUS DUCT RISER SERVING APARTMENTS.

BY LHA.

KEY NOTES

1) ORIGINAL SECURITY PANEL RELOCATED FROM STORAGE ROOM. REFER TO DRAWING ED.01 FOR ADDITIONAL INFORMATION.

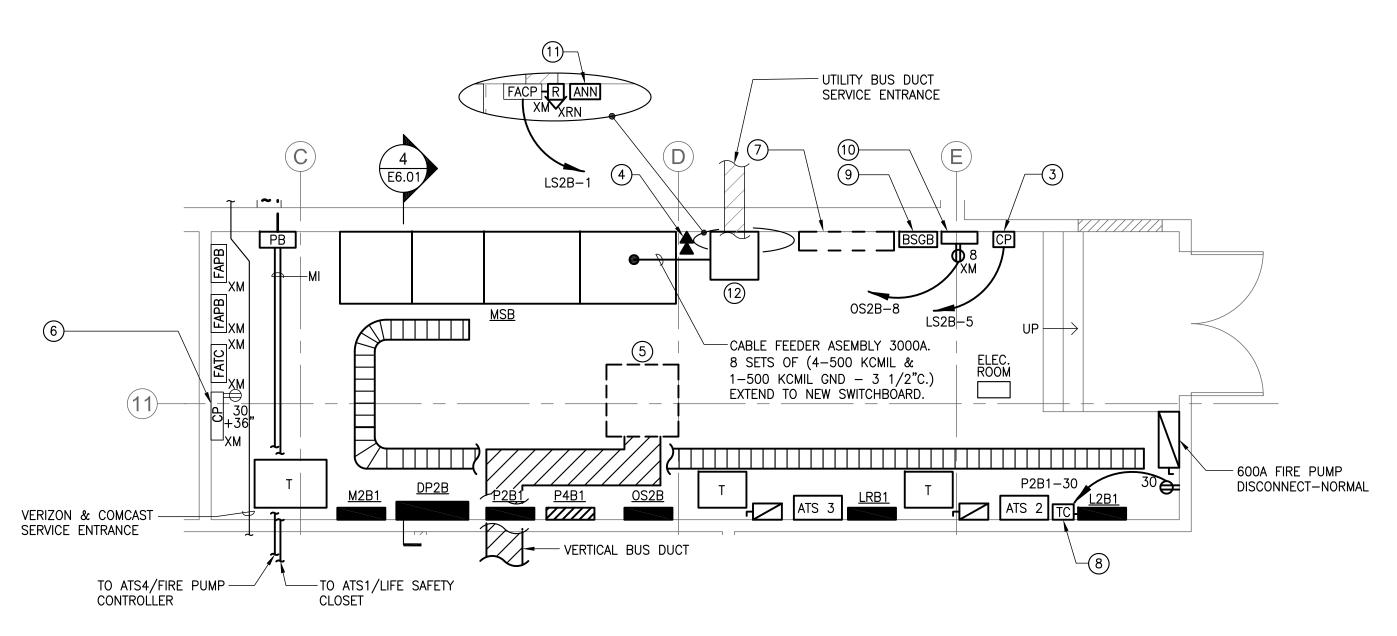
2. IN REGARDS TO THIS SET OF DRAWINGS: "ORIGINAL" DENOTES-ITEMS IN

RENTED BY LHA. "REPLACEMENT" OR "REBUILT" DENOTES NEW OR

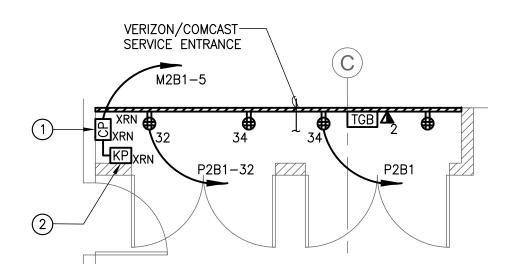
PLACE PRIOR TO FLOODING INCIDENT. "RENTAL" DENOTES-TEMPORARY ITEMS PROVIDED BY INFRA-RED BUILDING & POWER, INC (781) 767-0888, AND

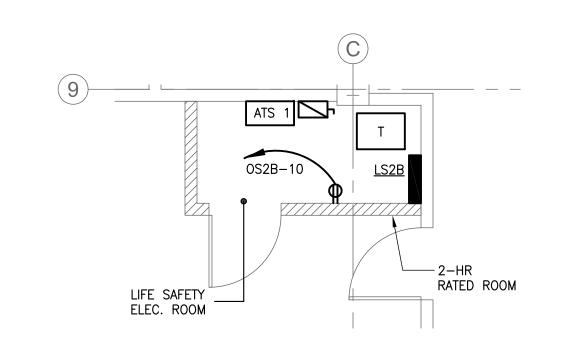
REFURBISHED ITEMS PROVIDED AFTER THE FLOODING INCIDENT AND OWNED

- ORIGINAL SECURITY KEYPAD RELOCATED FROM STORAGE ROOM. REFER TO DRAWING ED.01 FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CARBON MONOXIDE CONTROL PANEL FOR MANAGEMENT OF MULTIPLE CO DETECTORS. REFER TO CO ALARM DETAIL ON DRAWING E9.01 FOR ADDITIONAL INFORMATION.
- 4 PROVIDE TWO (2) POTS TELEPHONE OUTLETS FOR CONNECTION TO
- 5 NEW CUSTOM BUS DUCT TAP BOX MOUNTED FROM STRUCTURE ABOVE. BUS DUCT TAP BOX IS APPROX. 36"H x 36"W x 36"D. TOP OF BOX TO BE MOUNTED TIGHT TO DECK TO ENSURE BOTTOM OF TAP BOX IS ABOVE 104" AFF. CONTACT AND COORDINATE WITH SCOTT LOGAN OF A&M ASSOCIATES, SLOGAN@AMASSOC.NET FOR ADDITIONAL INFORMATION.
- 6 SEWAGE PUMP CONTROLLER TO REMAIN. RECONNECT TO NEW PANELBOARD <u>LRB1</u>.
- 7) AREA RESERVED FOR FUTURE FIRE ALARM PANEL EXPANSION.
- (8) PROVIDE DIGITAL TIME CLOCK FOR REAR PARKING LOT LIGHTING. INTERMATIC MODEL #ET8215C OR APPROVED EQUAL.
- 9 PROVIDE BUILDING SERVICE GROUND BAR AND BOND ELECTRICAL EQUIPMENT PER NEC. REFER TO DETAIL ON DWG E9.01 FOR ADDITIONAL INFORMATION.
- 10) PROVIDE 18"H x 12"W x 6"D SPARE FUSE CABINET. MOUNTED OC
- 11) NEW ATS #1 (LIFE SAFETY) REMOTE ANNUNCIATOR WIRED TO FACP.
- (12) CABLE TAP BOX AT EXISTING SECONDARY SERVICE BUS DUCT. COORDINATE IN FIELD PRIOR TO ROUGHING.



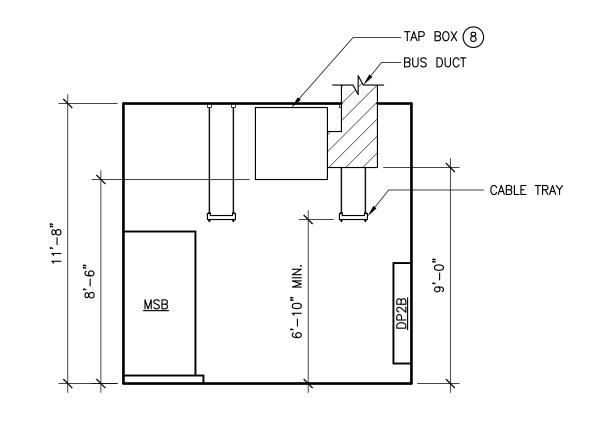






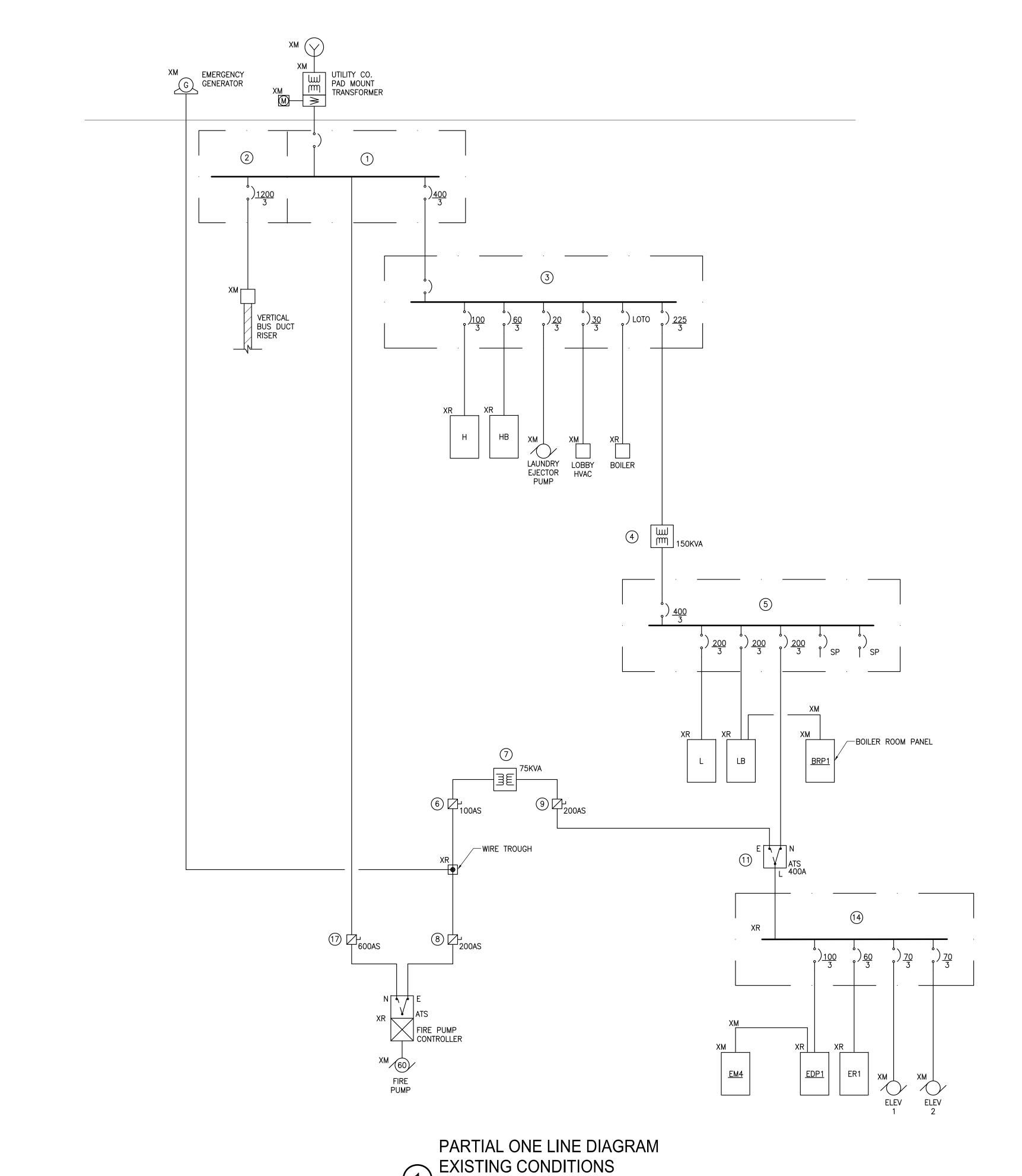






SECTION THRU ELECTRIC ROOM

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NOT

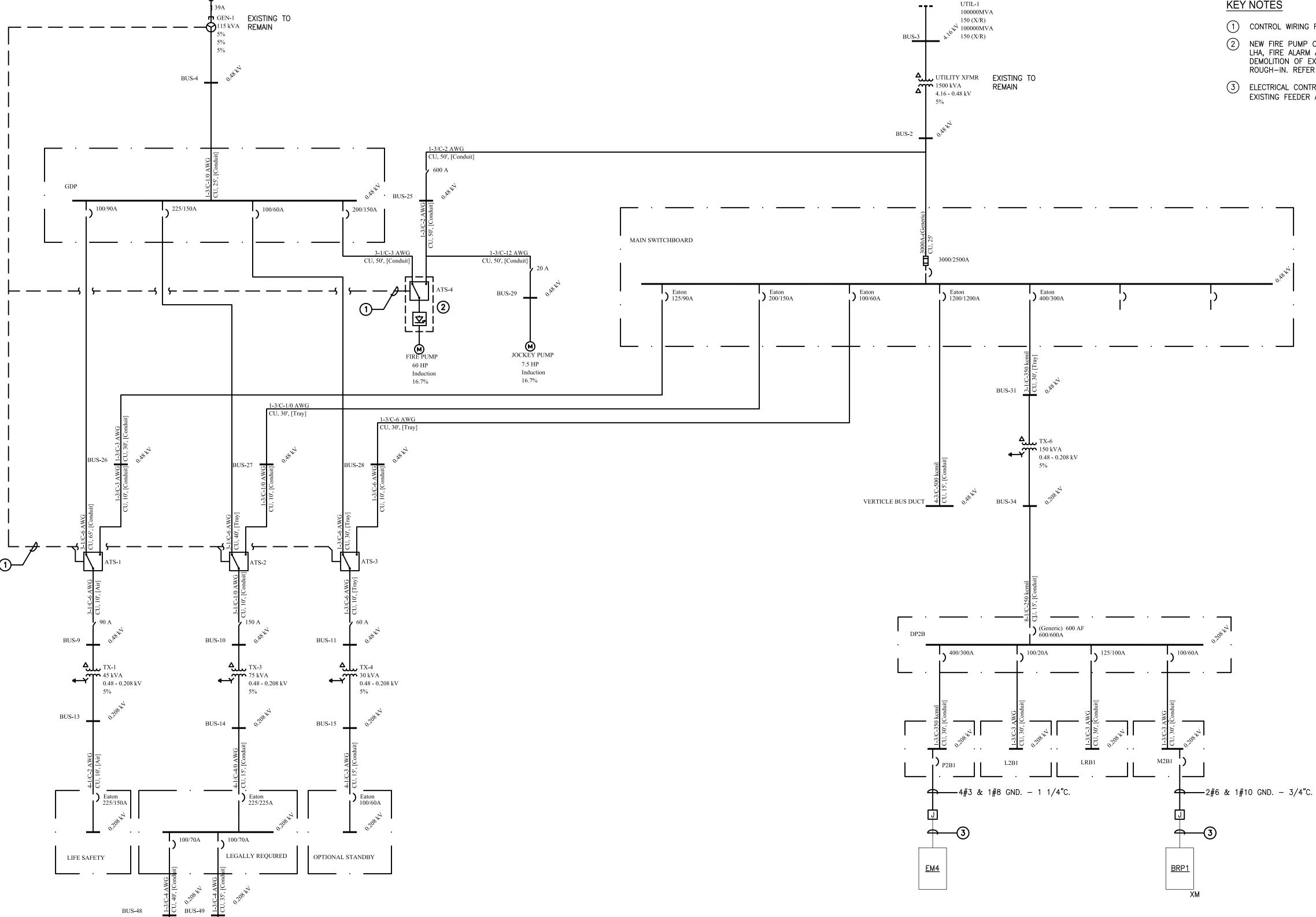
- 1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES REFER TO DRAWING
- 2. FOR EXISTING CONDITIONS PHYSICAL LAYOUT, REFER TO DRAWING ED.02.
- 3. IN REFERENCE TO KEYNOTES BELOW: "ORIGINAL" DENOTES—ITEMS IN PLACE PRIOR TO FLOODING INCIDENT. "RENTAL" DENOTES—TEMPORARY ITEMS PROVIDED BY INFRA—RED BUILDING & POWER, INC (781) 767—0888, AND RENTED BY LHA. "REPLACEMENT" OR "REBUILT" DENOTES NEW OR REFURBISHED ITEMS PROVIDED AFTER THE FLOODING INCIDENT AND OWNED BY LHA.
- 4. COORDINATE WITH ELECTRIC UTILITY COMPANY, LHA AND INFRA-RED BUILDING & POWER INC. FOR SCHEDULING ALL POWER OUTAGES FOR DISCONNECT, CUTOVER AND INMEDIATE RETURN OF ALL RENTAL EQUIPMENT PRIOR TO ROUGH IN. INFRA-RED (781) 767-0888

- 1 RENTAL SWITCHBOARD SECTION MAIN DISCONNECT.
- 2 RENTAL SWITCHBOARD SECTION BUS DUCT RISER DISCONNECT.
- 3 RENTAL DISTRIBUTION PANEL 480Y/277V-3ø-4W.
- 4 RENTAL DRY-TYPE TRANSFORMER 150KVA LABELED "T2".
- 5 RENTAL DISTRIBUTION PANEL 208Y/120V-3ø-4W.
- 6 RENTAL DISCONNECT SWITCH FOR TRANSFORMER "T1" PRIMARY.
- 7 RENTAL DRY-TYPE TRANSFORMER 75KVA LABELED "T1".
- 8 RENTAL DISCONNECT SWITCH FOR FIRE PUMP EMERGENCY FEED.
- 9 RENTAL DISCONNECT SWITCH FOR TRANSFORMER "T1" SECONDARY.
- 0 ORIGINAL ATS.
- 11) RENTAL ATS.
- (12) ORIGINAL METER SOCKETS AND AMMETER.
- (13) ORIGINAL ELECTRIC WALL HEATER LOCATED ABOVE METERS.
- ORIGINAL PANELBOARD "EDP" 208Y/120V, 3ø, 4W, 225A, MLO SERVES EMERGENCY LOADS.
- (15) ORIGINAL PANELBOARD "<u>HB</u>" 480Y/277V, 3ø, 4W, 100A MLO.
- (16) ORIGINAL PANELBOARD "LB" 208Y/120V, 3ø, 4W, 225A MLO.
- 17) RENTAL DISCONNECT SWITCH FOR FIRE PUMP. NORMAL FEED.
- (18) ORIGINAL TELEPHONE EQUIPMENT CABINET.
- (19) ORIGINAL PANELBOARD "ER1" 208Y/120V-3ø, 4W, 100A MLO
- 20 ORIGINAL PUMP CONTROL PANEL.
- (21) FIRE ALARM TERMINAL CABINET CONTAINING TWENTY (20) ADDRESSABLE MODULES.
- 22 REPLACEMENT FIRE ALARM POWER BOOSTER.
- 23) REPLACEMENT COMCAST SERVICE ENTRANCE EQUIPMENT.
- REPLACEMENT VERIZON SERVICE ENTRANCE EQUIPMENT.
- ORIGINAL TELEPHONE MOUNTING BOARD WITH PUNCHDOWN BLOCKS.
- 26) EXISTING RADIO MASTER BOX #138.
- (27) EXISTING FIRE ALARM CONTROL PANEL, MIRCOM.

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES REFER TO DRAWING

KEY NOTES

- 1) CONTROL WIRING FOR GENERATOR START SIGNAL.
- NEW FIRE PUMP CONTROLLER. COORDINATE WITH GENERAL CONTRACTOR, LHA, FIRE ALARM AND FIRE PROTECTION SERVICE CONTRACTORS FOR DEMOLITION OF EXISTING AND INSTALLATION OF NEW PRIOR TO ROUGH—IN. REFER TO DWG. E7.03 FOR ADDITIONAL INFORMATION.
- 3 ELECTRICAL CONTRACTOR SHALL VERIFY SIZE AND INTEGRITY OF EXISTING FEEDER AND INFORM A/E OF ANY ISSUES OR CONCERNS.



PARTIAL ONE LINE DIAGRAM NEW WORK

ELEVATOR 1

** HP

Induction
16.7%

BASEMENT

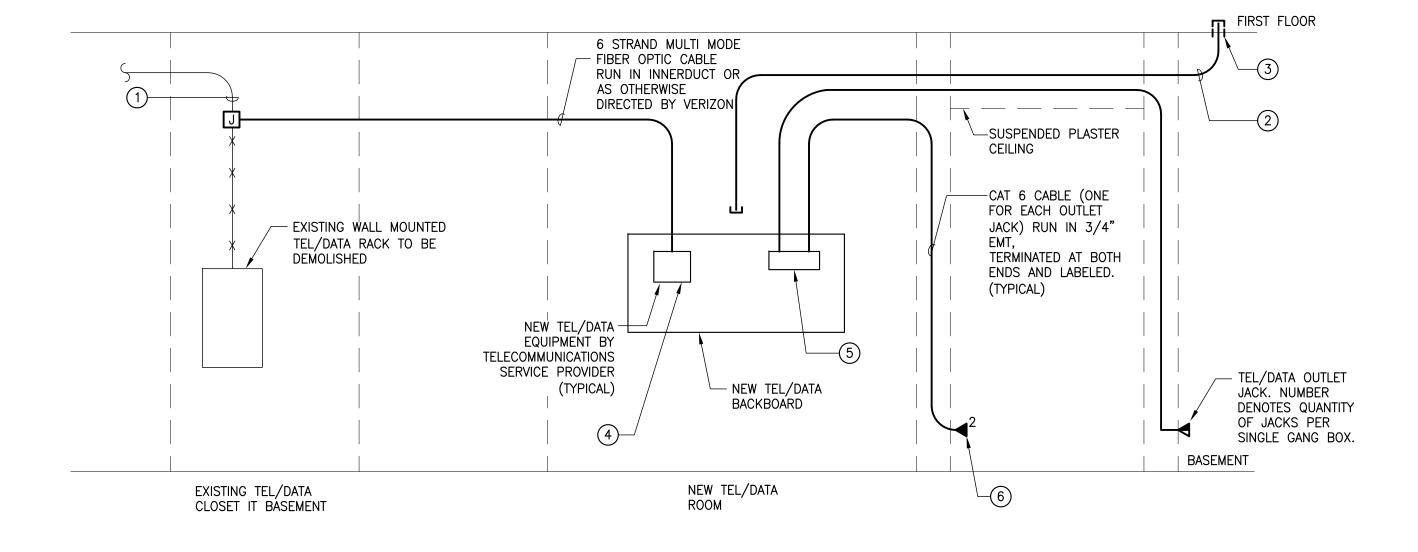
FIRE ALARM RISER KEY NOTES:

- 1) EXISTING FIRE ALARM CONTROL PANEL MIRCOM FA-100 SERIES.
- 2) PINE RIDGE TECHNOLOGIES, INC. OF NORTH READING, MA IS THE EXISTING FIRE ALARM SERVICE COMPANY OF RECORD FOR THE FACILITY. THE CONTACT NUMBER IS 781-246-5555 - JOHNATHON GONZALES. RUSTIC FIRE PROTECTION INC. OF NORTON, MA IS THE EXISTING FIRE PROTECTION SERVICE COMPANY OF RECORD FOR THE FACILITY. THE CONTACT NUMBER IS 508-431-9938. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH AND PAY ALL CHARGES ASSOCIATED WITH DISCONNECTING, TO THE EXISTING FIRE ALARM SYSTEM; INCLUDING BUT NOT LIMITED TO, TEMPORARY CONNECTIONS, TEMPORARY MONITORING, AND RE-PROGRAMMING.
- 3) PROVIDE PROGRAMMING OF EXISTING CONTROL PANEL TO ADD NEW AND/OR MODIFY EXISTING ZONES FOR DEVICES LOCATED WITHIN AREÁ OF WORK.
- 4 INTERCEPT EXISTING FIRE ALARM CONTROL PANEL BRANCH CIRCUIT AND EXTEND TO NEW LIFE SAFETY PANEL AS NOTED.
- 5 INTERCEPT EXISTING FIRE ALARM WIRING AND EXTEND TO NEW DEVICES IN AREA OF WORK.

- 6 PROVIDE MONITORING POINTS, MODULES AND WIRING FROM FIRE PROVIDE TROUBLE ALARMS FOR THE FOLLOWING:
 - 1. FIRE PUMP DISCONNECT OPEN. 2. FIRE PUMP NOT IN AUTOMATIC MODE.
 - 3. FIRE PUMP DERANGEMENT.
- 7 PROVIDE MONITORING POINTS, MODULES AND WIRING FROM SYSTEM. PROVIDE TROUBLE ALARMS FOR THE FOLLOWING.

 - EMERGENCY SYSTEM CARRYING LOAD.
 - 5. EMERGENCY SYSTEM GROUND FAULT.
- PUMP CONTROLLER TO FACP FOR A COMPLETE WORKING SYSTEM.
- 4. FIRE PUMP ON.
- 5. FIRE PUMP POWER FAILURE.
- GENERATOR CONTROL PANEL TO FACP FOR A COMPLETE WORKING
- 1. GENERATOR NOT IN AUTOMATIC MODE.
- EMERGENCY SYSTEM DERANGEMENT.
- 4. BATTERY CHARGER NOT FUNCTIONING.





- 1) INTERCEPT EXISTING TEL/DATA FEED FROM EXISTING TELECOMMUNICATIONS SÉRVICE ENTRANCE LOCATED IN MAIN ELECTRIC ROOM AND EXTEND TO NEW TEL/DATA ROOM AND RE-TERMINATE TO TEL/DATA EQUIPMENT. COORDINATE WITH VERIZON, COMCAST AND BUILDING MANAGEMENT PRIOR TO CUT OVER FOR SHUTDOWN WORK.
- 2) TWO (2) 2 1/2"C. UP TO EXISTING LHA OFFICE TEL/DATA RACK ON FIRST FLOOR.
- 3) PROVIDE FIRE STOPPING AT FLOOR CORE.

- 4 EXISTING FIBER TO COPPER MEDIA CONVERTER RELOCATED FROM MAIN ELECTRIC ROOM. COORDINATE WITH UTILITY COMPANY AND BUILDING MANAGEMENT PRIOR TO CUT-OVER.
- 5 PROVIDE NEW 24 PORT PATCH PANEL MOUNTED TO NEW BACK BOARD AND TERMINATE NEW AND EXISTING POWER AND PATCH CABLING FOR A COMPLETE WORKING SYSTEM.
- 6 PROVIDE (2) POTS LINE FOR FACP LOCATED IN MAIN ELECTRIC ROOM.

PARTIAL TEL/DATA RISER DIAGRAM

CITY

1) PROVIDE RED CIRCUIT BREAKER FOR FIRE ALARM BRANCH CIRCUITS INCLUDING RED UNIVERSAL BREAKER LOCK WITH PADLOCK & KEY. GARVIN INDUSTRIES #UBL-3 OR APPROVED EQUAL.

		PANEL	30A	RD	SCH	HEDULE		
PANEL: LS2B	VOLTA	GE: 208/120V		PHAS	E: 3	WIRES: 4		MAINS: 150 MCB
MOUNTING: SURFACE	LOCAT	TION: LS CLOSE	T	FED	FROM:			A.I.C.: 10K
LOAD		CKT BKR	CKT	Ø	СКТ	CKT BKR		LOAD
DESCRIPTION	kVA	AMP/POLE	NO.	Ψ	NO.	AMP/POLE	kVA	DESCRIPTION
FIRE ALARM CONTROL PANEL	.6	20/1P	1	Α	2	20/1P	1.0	EXIT SIGNS BASEMENT
FIRE ALARM POWER BOOSTER PANEL	.6	20/1P	3	В	4	20/1P	1.0	EMERGENCY LIGHTING BASEMENT
CARBON MONOXIDE CONTROL PANEL	1.2	20/1P	5	С	6		9.6	
SPARE		20/1	7	Α	8	30 3P	9.6	PANEL LM-4 FOURTH FLOOR
SPARE		20/1	9	В	10]/ "	9.6	TOOKIII TEOOK
SPARE		20/1	11	С	12	20/1		SPARE
SPARE		20/1	13	Α	14	20/1		SPARE
SPACE			15	В	16	20/1		SPARE
SPACE			17	С	18			SPACE
SPACE			19	Α	20			SPACE
SPACE			21	В	22			SPACE
SPACE			23	С	24			SPACE
SPACE			25	Α	26			SPACE
SPACE			27	В	28			SPACE
SPACE			29	С	30			SPACE
SPACE			31	Α	32			SPACE
SPACE			33	В	34			SPACE
SPACE			35	С	36			SPACE
SPACE			37	Α	38			SPACE
SPACE			39	В	40			SPACE
SPACE			41	С	42			SPACE
PHASE A: 11.4	PHASI	E B: 11.4			PHAS	E C: 10.8		TOTAL kVA: 33.6

		PANELE	30A	RD	SCF	IEDULE		
PANEL: OS2B	VOLTA	GE:		PHAS	E:	WIRES:		MAINS: 100A MCB
MOUNTING:	LOCAT	ION:		FED	FROM:			A.I.C.: 10K
LOAD		CKT BKR	СКТ	d	CKT	CKT BKR		LOAD
DESCRIPTION	kVA	AMP/POLE	NO.	Ø	NO.	AMP/POLE	kVA	DESCRIPTION
COMPUTER ROOM	2.5	30	1	Α	2	20	1.6	UNKNOWN LOAD FROM ER-1
CONDENSING UNIT	2.5	2	3	В	4	2	1.6	ONKNOWN LOAD FROM ER-1
EXISTING LOAD FROM ER-1	1.2	20/1	5	С	6	20/1	1.2	SPEAKER SYSTEM
EXISTING LOAD FROM ER-1	1.2	20/1	7	Α	8	20/1	1.3	RECEPTACLE IN MER @COLUMN "E"
EXISTING LOAD FROM ER-1	1.2	20/1	9	В	10	20/1	1.3	RECEPTACLE IN LIFE SAFETY ROOM
SPARE		20/1	11	С	12	20/1		SPARE
SPARE		20/1	13	Α	14	20/1		SPARE
SPARE		20/1	15	В	16	20/1		SPARE
SPACE			17	С	18			SPACE
SPACE			19	Α	20			SPACE
SPACE			21	В	22			SPACE
SPACE			23	С	24			SPACE
SPACE			25	Α	26			SPACE
SPACE			27	В	28			SPACE
SPACE			29	С	30			SPACE
SPACE			31	Α	32			SPACE
SPACE			33	В	34			SPACE
SPACE			35	С	36			SPACE
SPACE			37	Α	38			SPACE
SPACE			39	В	40			SPACE
SPACE			41	С	42			SPACE

		PANELE						
PANEL: LR2B		NGE: 208Y/120V		PHAS		WIRES: 4		MAINS: 225A MCB
MOUNTING: SURFACE	LOCA	TION: MAIN ELEC	C. RM	FED I	FROM: G	SDP VIA XFMR		A.I.C.: 10K
LOAD		CKT BKR AMP/POLE	CKT NO.	Ø	CKT NO.	CKT BKR AMP/POLE		LOAD
DESCRIPTION	kVA	AMP/PULE	NO.	,		AMP/PULE	kVA	DESCRIPTION
	6.7	70	1	A	2	70	6.7	
ELEVATOR #1	6.7	3	3	В	4	3	6.7	ELEVATOR #2
	6.7	<u>/</u>	5	С	6		6.7	
CEWACE E JECTOR	5.8	60	7	Α	8	20/1P	.6	RECEPTACLE FOR SEWAGE CONTROL PANEL
SEWAGE EJECTOR PUMP	5.8	60 3	9	В	10	20/1	.3	ELEVATOR PIT
	5.8		11	С	12	20/1	.3	ELEVATOR PIT
SPARE		20/1	13	Α	14	20/1	.3	ELEVATOR PIT
SPARE		20/1	15	В	16	20/1	.3	ELEVATOR PIT
SPARE		20/1	17	С	18	20/1		SPARE
SPARE		20/1	19	Α	20	20/1		SPARE
SPARE		20/1	21	В	22	20/1		SPARE
SPARE		20/1	23	С	24	20/1		SPARE
SPACE			25	Α	26			SPACE
SPACE			27	В	28			SPACE
SPACE			29	С	30			SPACE
SPACE			31	Α	32			SPACE
SPACE			33	В	34			SPACE
SPACE			35	С	36			SPACE
SPACE			37	Α	38			SPACE
SPACE			39	В	40			SPACE
SPACE		41 C						SPACE
PHASE A: 20.1	PHAS	E B: 19.8			PHAS	E C: 19.5		TOTAL kVA: 59.4

	PANELBOARD SCHEDULE												
PANEL: L2B1	VOLTA	GE: 208Y/120V	/	PHAS	E: 3	WIRES: 4		MAINS: 100A					
MOUNTING: SURFACE	LOCAT	TION: MER		FED I	FROM: D	P2B		A.I.C.: 10K					
LOAD		CKT BKR	CKT	Ø	СКТ	CKT BKR		LOAD					
DESCRIPTION	kVA	AMP/POLE	NO.	Ψ	NO.	AMP/POLE	kVA	DESCRIPTION					
BASEMENT LIGHTING NORTH EAST	1.2	20/1P	1	Α	2	20/1P	1.0	BASEMENT LIGHTING NORTH WEST					
BASEMENT LIGHTING NORTH	0.8	20/1P	3	В	4	20/1P	1.2	PARKING LIGHTING VIA TIME CLOCK					
SPARE		20/1	5	С	6	20/1		SPARE					
SPARE		20/1	7	Α	8	20/1		SPARE					
SPARE		20/1	9	В	10	20/1		SPARE					
SPARE		20/1	11	С	12	20/1		SPARE					
SPACE			13	Α	14			SPACE					
SPACE			15	В	16			SPACE					
SPACE			17	С	18			SPACE					
SPACE			19	Α	20			SPACE					
SPACE			21	В	22			SPACE					
SPACE			23	С	24			SPACE					
SPACE			25	Α	26			SPACE					
SPACE			27	В	28			SPACE					
SPACE			29	С	30			SPACE					
SPACE			31	Α	32			SPACE					
SPACE			33	В	34			SPACE					
SPACE			35	С	36			SPACE					
SPACE			37	Α	38			SPACE					
SPACE			39	В	40			SPACE					
SPACE			41	С	42			SPACE					
PHASE A: 2.2	PHASI	E B: 2.0			PHAS	E C:		TOTAL kVA: 4.2					

PANELBOARD SCHEDULE												
PANEL: P2B1	VOLTA	GE: 208Y/120V	,	PHAS	E: 3	WIRES: 4		MAINS: 400				
MOUNTING: SURFACE	LOCAT	TION: MER		FED I	FROM: N	MSB		A.I.C.: 10K				
LOAD		CKT BKR	CKT	ø	CKT	CKT_BKR		LOAD				
DESCRIPTION	kVA	AMP/POLE	NO.	Ψ	NO.	AMP/POLE	kVA	DESCRIPTION				
DRYER	3.3	40	1	Α	2	70	2.9					
	3.3	2	3	В	4	30 3	2.9	TRASH COMPACTOR				
DRYER	3.3	40	5	С	6		2.9					
	3.3	2	7	Α	8	20/1	0.3	GFCI RECEPTACLE @ GENERATOR				
FAN	2.5	40	9	В	10	40	3.3	- DRYER				
	2.5	2	11	С	12	2	3.3	J.V. 2.V				
FAN-ELECTRIC ROOM	1.2	20/1	13	Α	14	20/1	1.5	WASHERS				
WASHERS	1.2	20/1	15	В	16	20/1	1.2	RECEPTACLES IN LAUNDROMAT				
RECEPTACLES-HALLWAY & COMPACTOR	1.0	20/1	17	С	18	20/1	1.2	RECEPTACLE IN BOILER/FIRE EMERGENCY STORAGE ROOMS				
WASHER	1.2	20/1	19	Α	20	20/1	1.2	RECEPTACLES MAINT. OFFICE & HALLWAY				
RECEPTACLES—HALLWAY OUTSIDE MER	1.0	20/1	21	В	22	20/1	1.2	RECEPTACLES IN GARAGE & ROLL UP DO				
RECEPTACLES-MAINTENANCE SHOP	1.2	20/1	23	С	24	20/1	1.0	GATE				
WASHERS	1.2	20/1	25	Α	26	20/1	.6	RECEPTACLES IN TEL/COM ROOM				
	9.6		27	В	28	20/1	1.0	RECEPTACLES IN CHAIRLIFT VESTIBULE				
DRYERS	9.6	100 3	29	С	30	20/1	.5	RECEPTACLES IN MAIN ELECTRIC ROOM				
	9.6		31	Α	32	20/1	.5	QUAD RECEPTACLE IN TEL/DATA ROOM				
HANDICAP CHAIRLIFT	1.2	20/1	33	В	34	20/1	.5	QUAD RECEPTACLE IN TEL/DATA ROOM				
SPARE			35	С	36	20/1	.3	GFCI RECEPTACLE IN JANITORS CLOSET				
SPARE			37	Α	38			SPARE				
SPARE			39	В	40			SPARE				
SPARE			41	С	42			SPARE				
PHASE A: 26.8	PHASI	E B: 28.9		•	PHAS	E C: 26.8	•	TOTAL kVA: 82.5				

		PANEL	30A	RD	SCH	IEDULE			
PANEL: M2B1	VOLTA	GE: 208Y/120\	/	PHAS	E: 3	WIRES: 4		MAINS: 100	
MOUNTING: SURFACE	LOCA	LOCATION: MAIN ELECT. RM			FROM:		A.I.C.: 10K		
LOAD		CKT_BKR	СКТ	Ø	СКТ	CKT BKR	LOAD		
DESCRIPTION	kVA	AMP/POLE	NO.	ŷ.	NO.	AMP/POLE	kVA	DESCRIPTION	
BOILER ROOM	4.8	60	1	Α	2	20/1	1.2	CIRCULATION PUMP	
PANEL "BPR1"	4.8	2	3	В	4	20/1	1.2	CIRCULATION PUMP	
SECURITY PANEL IN TEL/DATA ROOM	1.2	20/1P	5	С	6	20/1		SPARE	
SPARE		20/1	7	Α	8	20/1		SPARE	
SPARE		20/1	9	В	10	20/1		SPARE	
SPARE		20/1	11	С	12	20/1		SPARE	
SPARE		20/1	13	Α	14			SPACE	
SPACE			15	В	16			SPACE	
SPACE			17	С	18			SPACE	
SPACE			19	Α	20			SPACE	
SPACE			21	В	22			SPACE	
SPACE			23	С	24			SPACE	
SPACE			25	Α	26			SPACE	
SPACE			27	В	28			SPACE	
SPACE			29	С	30			SPACE	
SPACE			31	Α	32			SPACE	
SPACE			33	В	34			SPACE	
SPACE			35	С	36			SPACE	
SPACE			37	Α	38			SPACE	
SPACE			39	В	40			SPACE	
SPACE			41	С	42			SPACE	

V TOWERS ELECTRICAL

DATE:

CHECKED BY: CM

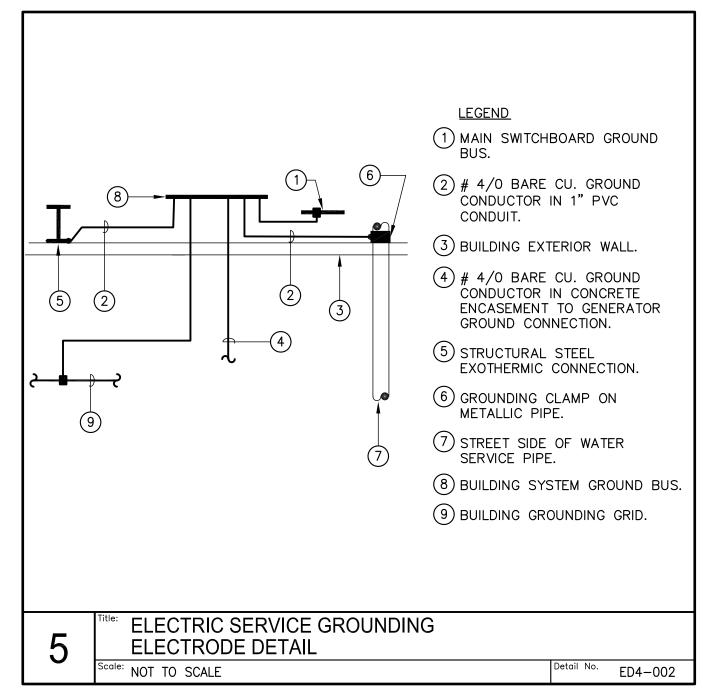
	LUMINAIRE SCHEDULE												
		MANUFACTURER &		SOURCE		IN	PUT						
TYPE	DESCRIPTION	CATALOG NUMBER	TYPE	LUMENS	COLOR TEMPERATURE	VOLTS	WATTS	REMARKS					
Α	1'X4' HIGH OUTPUT LED STRIP WITH RIBBED FROSTED LENS, SURFACE MOUNTED AIRCRAFT SUSPENSION TO SUIT SPACE	XTRALIGHT LRS42000L35K-UNV	LED	2000	3500K	120-277	18W	CABLE: 5PJ-MS0199 10FT-MS0214					
В	19"X19" LUMINAIRE LED WITH ACRYLIC LENS.DAMP LOCATION.	MOBERN 2-0347D-3000K	LED	3250	3000K	120–277	35W						
D	14ø LOW PROFILE, ACRYLIC DRUM-STYLE DIFUSSER, SURFACE MOUNT, 0-10V DIMMING TO 10% STANDARD.	LAMARLED CRL14AHFAS 50%	LED	2100-3200	3000K-5000K	120-277	13.5-20.5	FIELD ADJUSTABLE					
EB1	RECESSED BATTERY UNIT FOUR HIGH INTENSITY LEDS 3.75 DEEP	EMERGI-LITE JSC18-210LA	LED	_	-	120–277	4.0						
EB2	LOW MAINTENANCE EMERGENCY LIGHTING	EMERGI-LITE EL-2LED	LED	_	-	120-277	.10						
EX1	DIE CAST ALUMINUM SELF POWERED EXIT SIGN. SINGLE FACE	EMERGI-LITE WPREMDNR	LED	_	_	120-277	2.8W	WHITE HOUSING					
EX2	DIE CAST ALUMINUM SELF POWERED EXIT SIGN. SINGLE FACE	EMERGI-LITE WPREMDNR	LED	_	_	120-277	2.8W	WHITE HOUSING					

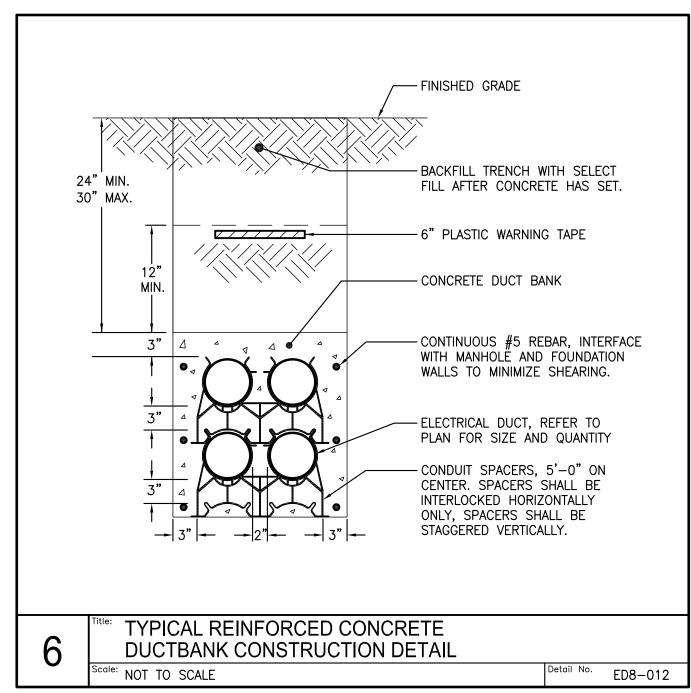
		PANELE	3OA	RD	SCH	HEDULE			
PANEL: P4B1	VOLTAGE: 480Y/277V			PHASE: 3 WIRES: 4		WIRES: 4	MAINS:		
MOUNTING: SURFACE	LOCA	TION:		FED	FROM:			A.I.C.:	
LOAD		CKT BKR	СКТ		СКТ	CKT BKR	LOAD		
DESCRIPTION	kVA	AMP/POLE	NO.	Ψ	NO.	AMP/POLE	kVA	DESCRIPTION	
	6.7		1	Α	2		4.4		
LOBBY HVAC	6.7	30A 3	3	В	4	20A 3	4.4	LAUNDRY EJECTOR PUMP	
	6.7		5	С	6		4.4		
	4.4		7	Α	8		4.4		
GARAGE HEAT	4.4	20 3	9	В	10	20 3	4.4	STORAGE ROOM HEAT	
	4.4		11	С	12		4.4		
	4.4		13	Α	14	20 3	4.4		
HANDICAP CHAIRLIFT VESTIBULE	4.4	20 3	15	В	16		4.4	STORAGE ROOM HEAT	
	4.4		17	С	18		4.4		
TEMP 1151TED 0001111110 14 1115 14 5	4.4		19	Α	20	20 3	4.4		
TEMP HEATER @COLUMNS M AND 11.5 BY VESTIBULE	4.4	20 3	21	В	22		4.4	MAINTENANCE ROOM HEAT	
	4.4		23	С	24		4.4		
SPACE			25	Α	26			SPACE	
SPACE			27	В	28			SPACE	
SPACE			29	С	30			SPACE	
SPACE			31	Α	32			SPACE	
SPACE			33	В	34			SPACE	
SPACE			35	С	36			SPACE	
SPACE			37	Α	38			SPACE	
SPACE			39	В	40			SPACE	
SPACE			41	С	42			SPACE	
PHASE A:	PHAS	E B:			PHAS	E C:		TOTAL kVA:	

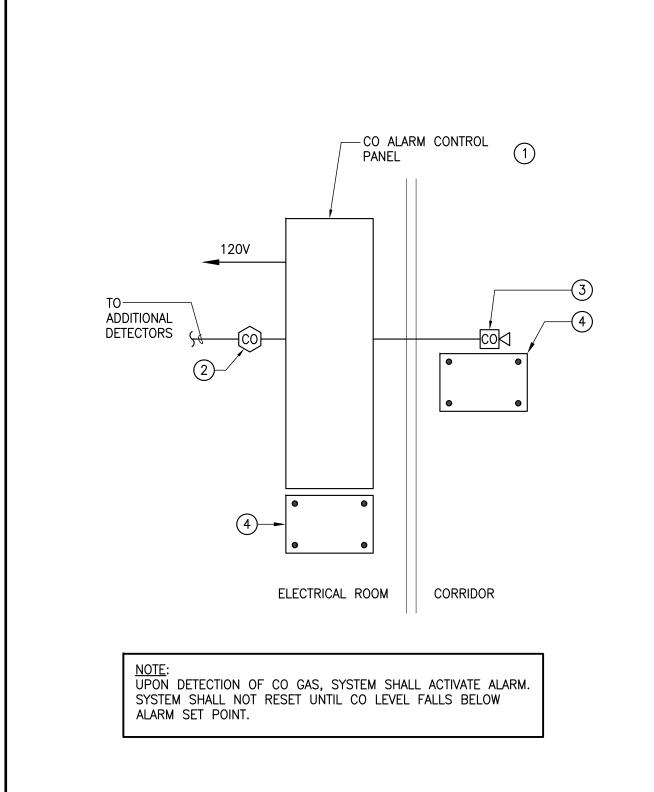
NAME: GDP V		VOLTS: 480V	VOLTS: 480V					WIRE: 3	NEUTRAL: 1	100%
MAIN BUS SIZE: 200A		MAIN DEVICE: MLO			GROUND B	JS: SOLID		MOUNTING: SURFACE		AC:
CIRCUIT NO.		OVER	CURRENT D	EVICE	DEMARKS					
	DESCRIPTION			KW	FRAME	TRIP	POLE	REMARKS		
1	PANELBOARD LS2	В			100A	90A	3			
2	PANELBOARD LR2	В			200A	150A	3			
3	PANELBOARD OS2	.B			100A	60A	3			
4	FIRE PUMP VIA ATS				200	150	3			
5	SPACE									
6	SPACE									
7	SPACE									
8	SPACE									
9	SPACE									
10	SPACE									
11	SPACE									
12	SPACE									
13	SPACE									
14	SPACE									

1) PROVIDE WEATHERPROOF NEMA 3R ENCLOSURE.

		DIST	RIBU	JTIC	N PAN	IEL S	CHED	ULE		
NAME: DP2B VOLTS: 208Y/120V			PHASE: 3			WIRE: 4	NEUTR	AL: 100%		
MAIN BUS	IS SIZE: 400 MAIN DEVICE: 400A MLO				GROUND B	US:		MOUNTING: SURFACE AC:		
CIRCUIT NO.	LOAD				OVER	CURRENT D	EVICE	- REMARKS		
	DESCRIPTION H.P.			KW	FRAME	TRIP	POLE	NEMAINS		
1	PANELBOARD P28	31			400	300	3			
2	PANELBOARD L2E	<u></u> 31			100	100	3			
3	PANELBOARD LRE	31			225	100	3			
4	PANELBOARD M28	31			100	100	3			
5	SPACE									
6	SPACE									
7	SPACE									
8	SPACE									
9	SPACE									
10	SPACE									
11	SPACE									
12	SPACE									
13	SPACE									
14	SPACE									







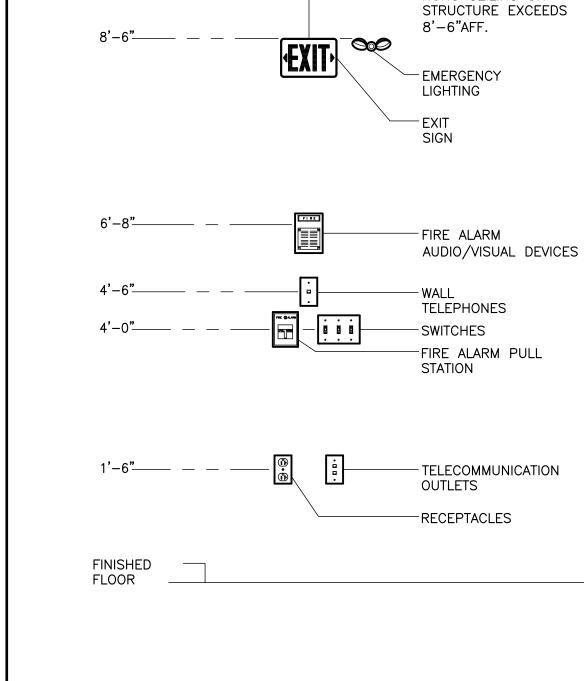
1) CARBON MONOXIDE (CO) ALARM CONTROL PANEL, 24VDC DRIVER FOR HORN/STROBE AND AUDIBLE BUZZER, MACURCO #DVP-120M.

(2) CO DETECTOR, LOW VOLTAGE SERIES. MACURCO #CM-6. WALL MOUNTED 72" A.F.F

3 CO REMOTE ALARM HORN/STROBE WITH AMBER LENS, 24VDC. MACURCO #HS-A. WALL MOUNTED AT 80" A.F.F.

4 PHENOLIC SIGNAGE WITH 3/4" HIGH RED LETTERING ON WHITE BACKGROUND TO READ "WHEN ALARM SOUNDS ALERT A QUALIFIED TECHNICIAN AND FACILITY MANAGER IMMEDIATELY." SIGN SHALL BE WALL MOUNTED NEXT TO CONTROL PANEL.

CO ALARM CONTROL PANEL WIRING DIAGRAM Detail No. ED1-001C e: NOT TO SCALE



-PROVIDE PENDANT WHERE

HUNG CEILING OR

cale: NOT TO SCALE

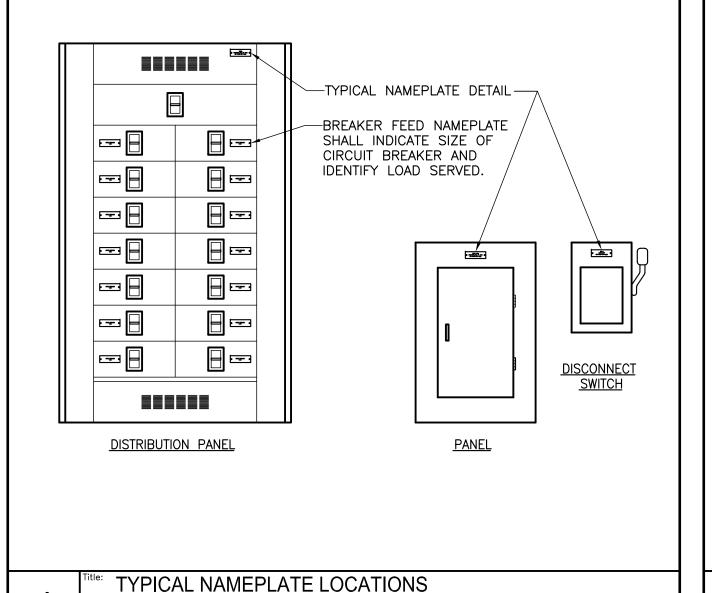
1. MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT EXIT SIGNS, EMERGENCY LIGHTING AND FIRE ALARM A/V APPLIANCES.

2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.

3. DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.

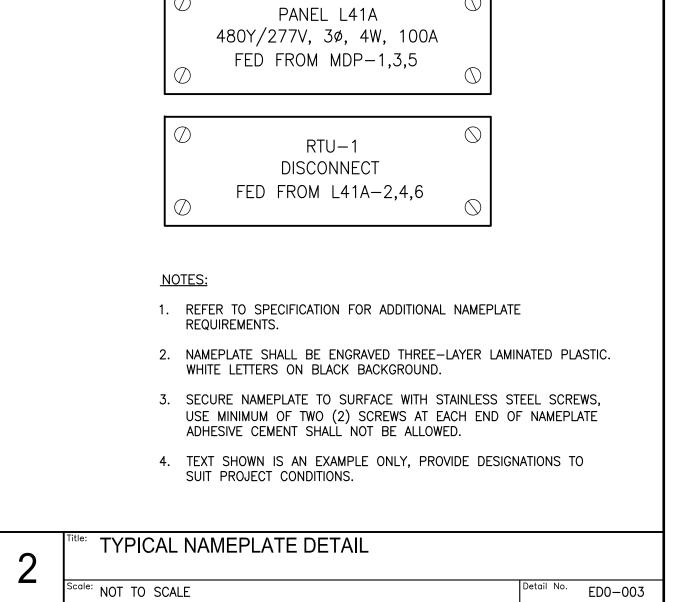
4. FIRE ALARM STROBE HEIGHT SHOWN AT MAXIMUM HEIGHT. STROBE SHALL BE MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.

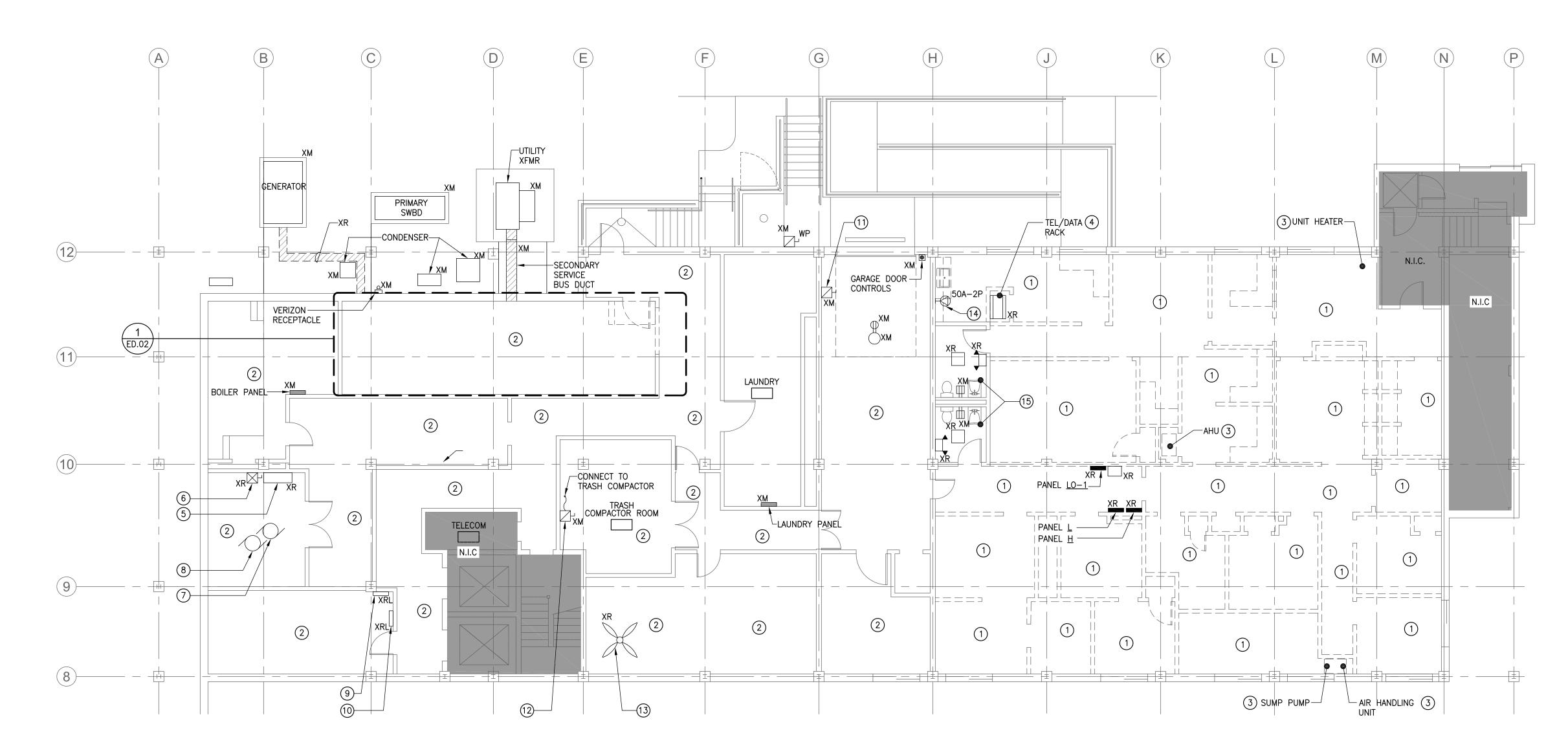
TYPICAL DEVICE MOUNTING HEIGHTS DETAIL 0" 1/2" 1" Detail No. ED0-007



e: NOT TO SCALE

Detail No. ED0-004

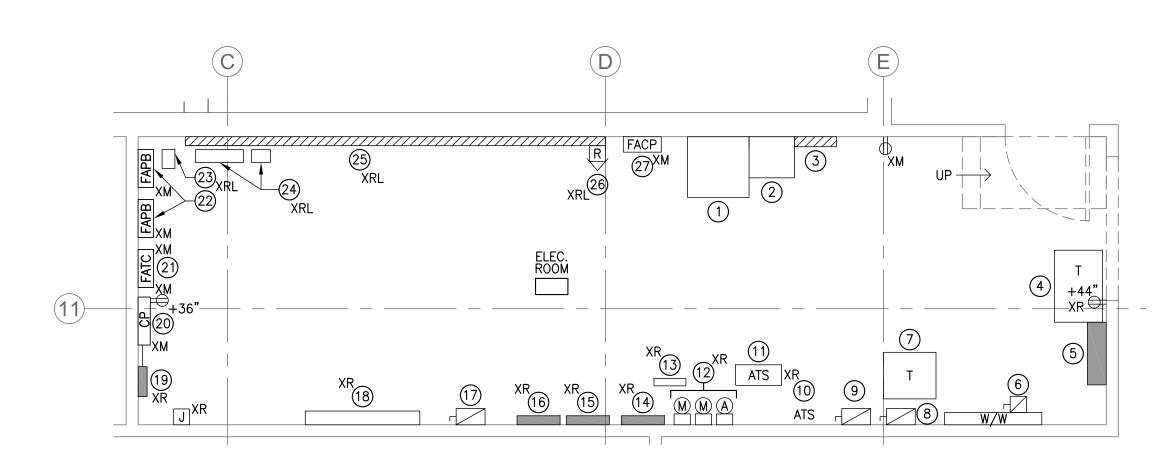




- 1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES REFER TO DRAWING
- 2. UNPLUG ALL EXISTING WINDOW A/C UNITS AND RETURN TO OWNER.
- 3. PROVIDE STEEL BLANK PLATE OVER ANY OPEN JUNCTION BOX NOT BEING REUSED. REFER TO DRAWINGS E2.01 & E3.01 FOR ADDITIONAL INFORMATION.
- 4. ALL EXISTING SECURITY PANELS AND EQUIPMENT IS TO REMAIN UNLESS OTHERWISE NOTED. COORDINATE WITH OWNERS SECURITY MAINTENANCE SERVICE FOR ANY SHUTDOWNS OR WORK AFFECTING THE COMPLETION OF DIVISION 26 SCOPE PRIOR TO ROUGHING.

- 1) FOR AREA TO BE DEMOLISHED:
 DISCONNECT, REMOVE AND DISPOSE OFF—SITE ALL ELECTRICAL DEVICES, LIGHTING, SPECIAL SYSTEM DEVICES, CONDUITS, JUNCTION BOXES AND CONDUCTORS BACK TO LAST ACTIVE BRANCH OR PANEL, UNLESS OTHERWISE NOTED.
- FOR WALLS TO REMAIN:
 DISCONNECT, REMOVE AND DISPOSE OF OFF-SITE ALL LIGHTING, EXIT SIGNS, SWITCHING, RECEPTACLES, JUNCTION BOXES, CONDUCTORS AND CONDUIT BACK TO LAST ACTIVE BRANCH OR PANEL UNLESS OTHERWISE
- 3 DISCONNECT AND VERIFY THAT EXISTING EQUIPMENT IS IN AN ELECTRICALLY SAFE WORK CONDITION FOR REMOVAL BY GENERAL CONTRACTOR.
- 4 EXISTING TEL/DATA RACK TO BE REMOVED.
- 5) FIRE PUMP CONTROLLER.
- 6 JOCKEY PUMP CONTROLLER.
- 7) FIRE PUMP 60HP.
- 8 JOCKEY PUMP.
- 9 ORIGINAL SECURITY PANEL.
- ORIGINAL SECURITY KEYPAD TO BE RELOCATED TO NEW TEL/DATA
- 11) MATERIAL LIFT DISCONNECT SWITCH.
- (12) EXISTING DISCONNECT SAFETY SWITCH FOR TRASH COMPACTOR TO
- (13) EXISTING CEILING FAN AND ASSOCIATED CONTROLS, CABLING & CONDUIT TO BE REMOVED.
- DISCONNECT EXISTING RANGE RECEPTACLE AND DISCARD. MAKE SAFE EXISTING BRANCH CIRCUIT WIRING FOR FUTURE USE.
- EMERGENCY LIGHTING AND SWITCHING TO BE REMOVED AND REPLACED WITH NEW. REFER TO DRAWING E2.01 FOR ADDITIONAL INFORMATION.









- 1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES REFER TO DRAWING
- 2. IN REGARDS TO THIS SET OF DRAWINGS: "ORIGINAL" DENOTES—ITEMS IN PLACE PRIOR TO FLOODING INCIDENT. "RENTAL" DENOTES—TEMPORARY ITEMS PROVIDED BY INFRA—RED BUILDING & POWER, INC (781) 767—0888, AND RENTED BY LHA. "REPLACEMENT" OR "REBUILT" DENOTES NEW OR REFURBISHED ITEMS PROVIDED AFTER THE FLOODING INCIDENT AND OWNED BY LHA.
- 3. COORDINATE WITH LHA AND INFRA—RED FOR SCHEDULING THE DISCONNECT AND RETURN OF ALL RENTAL EQUIPMENT PRIOR TO ROUGH—IN.

KEY NOTES

- 1) RENTAL SWITCHBOARD SECTION MAIN DISCONNECT.
- 2 RENTAL SWITCHBOARD SECTION BUS DUCT RISER DISCONNECT.
- 3 RENTAL DISTRIBUTION PANEL 480Y/277V-3ø-4W.
- 4 RENTAL DRY-TYPE TRANSFORMER 150KVA LABELED "T2".
- 5 RENTAL DISTRIBUTION PANEL 208Y/120V-3ø-4W.
- 6 RENTAL DISCONNECT SWITCH FOR TRANSFORMER "T1" PRIMARY.
- 7 RENTAL DRY-TYPE TRANSFORMER 75KVA LABELED "T1".
- 8 RENTAL DISCONNECT SWITCH FOR FIRE PUMP EMERGENCY FEED.
- 9 RENTAL DISCONNECT SWITCH FOR TRANSFORMER "T1" SECONDARY.
- (10) ORIGINAL ATS.
- 11) RENTAL ATS.
- (12) ORIGINAL METER SOCKETS AND AMMETER.
- (13) ORIGINAL ELECTRIC WALL HEATER LOCATED ABOVE METERS.
- (14) ORIGINAL PANELBOARD "<u>EDP</u>" 208Y/120V, 3ø, 4W, 225A, MLO SERVES EMERGENCY LOADS.
- (15) ORIGINAL PANELBOARD "<u>HB</u>" 480Y/277V, 3ø, 4W, 100A MLO.
- (16) ORIGINAL PANELBOARD "LB" 208Y/120V, 3ø, 4W, 225A MLO.
- 17 RENTAL DISCONNECT SWITCH FOR FIRE PUMP. NORMAL FEED.
- (18) ORIGINAL TELEPHONE EQUIPMENT CABINET.
- (19) ORIGINAL PANELBOARD "ER1" 208Y/120V-3ø, 4W, 100A MLO
 - ORIGINAL PUMP CONTROL PANEL.
- 21) FIRE ALARM TERMINAL CABINET CONTAINING TWENTY (20) ADDRESSABLE MODULES.
- 22 REPLACEMENT FIRE ALARM POWER BOOSTER.
- 23) REPLACEMENT COMCAST SERVICE ENTRANCE EQUIPMENT.
- 24) REPLACEMENT VERIZON SERVICE ENTRANCE EQUIPMENT.
- 25) ORIGINAL TELEPHONE MOUNTING BOARD WITH PUNCHDOWN BLOCKS.
- 26 EXISTING RADIO MASTER BOX #138.
- 27) EXISTING FIRE ALARM CONTROL PANEL, MIRCOM.

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